

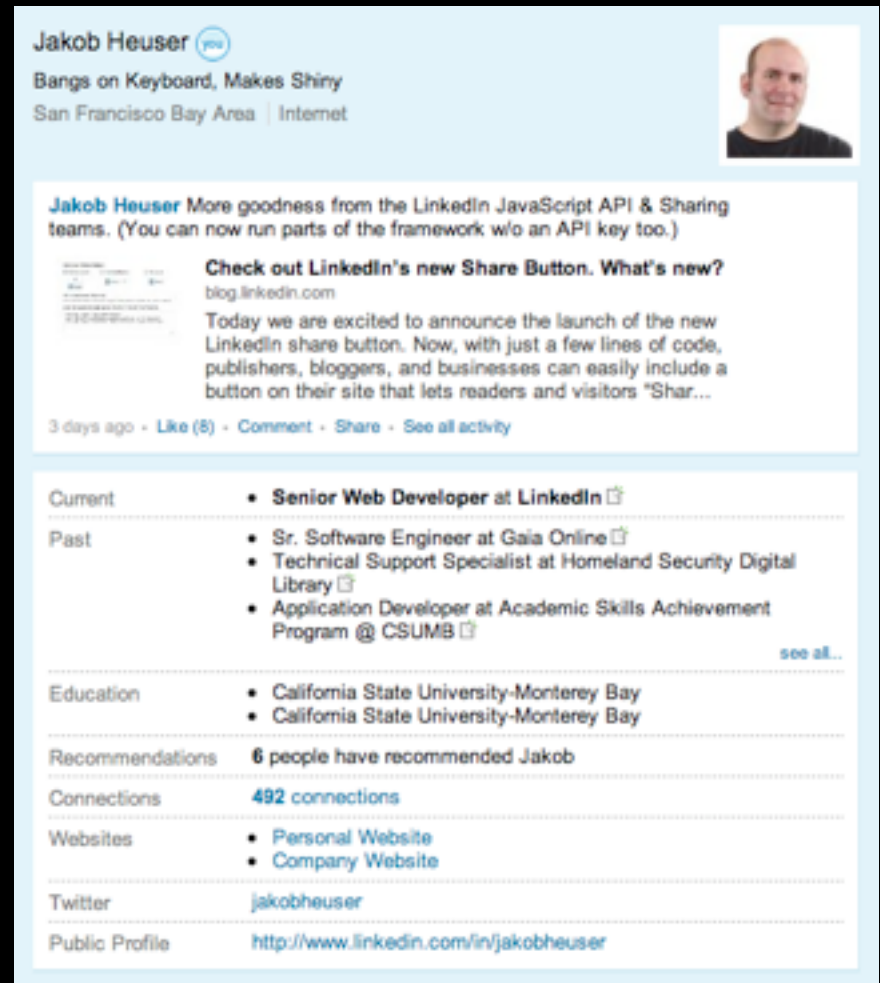
# LinkedIn JavaScript API

Soup to Nuts

# Introduction

- Web Developer
- LinkedIn
- JavaScript API Author

<http://www.linkedin.com/in/jakobheuser>



The screenshot shows Jakob Heuser's LinkedIn profile. At the top, his name 'Jakob Heuser' is followed by a 'you' icon. Below his name is the tagline 'Bangs on Keyboard, Makes Shiny' and location 'San Francisco Bay Area | Internet'. A profile picture of a man with a shaved head is on the right. The main section features a post by Jakob Heuser about the LinkedIn JavaScript API & Sharing teams, with a link to 'blog.linkedin.com'. The post text says: 'Today we are excited to announce the launch of the new LinkedIn share button. Now, with just a few lines of code, publishers, bloggers, and businesses can easily include a button on their site that lets readers and visitors "Shar...'. Below the post are interaction options: '3 days ago · Like (8) · Comment · Share · See all activity'. The bottom section lists his work history under 'Current' and 'Past', education at 'California State University-Monterey Bay', and other details like 'Recommendations', 'Connections', 'Websites', 'Twitter', and 'Public Profile'.

**Jakob Heuser** you  
Bangs on Keyboard, Makes Shiny  
San Francisco Bay Area | Internet

**Jakob Heuser** More goodness from the LinkedIn JavaScript API & Sharing teams. (You can now run parts of the framework w/o an API key too.)  
[blog.linkedin.com](http://blog.linkedin.com)  
Today we are excited to announce the launch of the new LinkedIn share button. Now, with just a few lines of code, publishers, bloggers, and businesses can easily include a button on their site that lets readers and visitors "Shar...

3 days ago · Like (8) · Comment · Share · See all activity

**Current**

- Senior Web Developer at LinkedIn 📄

**Past**

- Sr. Software Engineer at Gaia Online 📄
- Technical Support Specialist at Homeland Security Digital Library 📄
- Application Developer at Academic Skills Achievement Program @ CSUMB 📄

[see all...](#)

**Education**

- California State University-Monterey Bay
- California State University-Monterey Bay

**Recommendations** 6 people have recommended Jakob

**Connections** 492 connections

**Websites**

- Personal Website
- Company Website

**Twitter** [jakobheuser](#)

**Public Profile** <http://www.linkedin.com/in/jakobheuser>

# A Whole Lot in 45 Minutes

- JavaScript Crash Course
- LinkedIn's JavaScript API
- How to Get an API Key
- Sign in with LinkedIn
- Retrieve a Profile
- Get the Current User's Connections
- Search LinkedIn
- Raw API Calls (POST/PUT)

# Resources

- <http://developer.linkedin.com>
  - Developer Forums
  - API Documentation
  
- <http://linkd.in/jsapi-s2n>
  - Code samples from today

# JavaScript Crash Course

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# JavaScript

- ECMA Script (Syntactically similar to C++/Java)
- Runs in Browsers (and now on servers too)
- Also drives interaction on the client
- Gained traction in 2004 through "Web 2.0"

# LinkedIn's JavaScript API

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# LinkedIn's JavaScript API

- HTML 5 Compliant
- Familiar HTML and JS Syntax
- Shortcuts for common REST endpoints
- RAW REST support
- Copy/Paste Quick Start



# Adoption

- Launched October 6, 2010
- Still in Early Access / Feedback Stage
- Hundreds of Developers

# Getting an API Key

- JavaScript Crash Course
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# Getting an API Key

The screenshot shows the LinkedIn Developer Network homepage. At the top left is the LinkedIn logo and the text "Developer Network". On the top right, it says "Welcome, Guest" and has a "Login" link. Below the header is a search bar. A large blue banner features the text "LinkedIn Platform Open for Business" and silhouettes of three people. The main content is divided into two columns. The left column is titled "LinkedIn APIs" and describes how to integrate LinkedIn profiles and networks into a site or application. It includes an image of three interlocking gears and a "Get started >" link. The right column is titled "LinkedIn Widgets" and describes how to add LinkedIn features with minimal JavaScript. It includes an image of a LinkedIn widget showing "17 Connections work at LinkedIn" with names "Beid Hoffman", "Jeff Weiner", and "Deep Huber", and a "Get started >" link. At the bottom, there is an "Early Access" section with a "NEW" tag and a link to "JavaScript API Preview", which notes that OAuth2 authentication and JSON results make integration easier.

LinkedIn **in** Developer Network Welcome, Guest [Login](#)

LinkedIn Platform  
Open for Business

### LinkedIn APIs

Let your users bring LinkedIn profiles and networks with them to your site or application. You gain better awareness of your users, increase productive engagement, and gain reach through the 80 million professionals on LinkedIn.

[Get started >](#)

### LinkedIn Widgets

For the simplest and fastest integrations, LinkedIn widgets let you add the most used LinkedIn features with just a few lines of Javascript. Display profiles and show your users who they know at companies of interest with no back end development needed.

[Get started >](#)

17 Connections work at LinkedIn  
Beid Hoffman  
Jeff Weiner  
Deep Huber

**Early Access**

**NEW** [JavaScript API Preview](#): OAuth2 authentication and JSON results make it easier to integrate with LinkedIn.

# Getting an API Key

## LinkedIn Developer Network

### List of Applications

Company	Application Name
LinkedIn	JavaScript API Hello World

[Add New Application](#)

[Back to LinkedIn Developer Network](#)

[LinkedIn.com Home](#) | [About](#) | [Blog](#) | [Careers](#) | [Advertising](#) | [Recruiting Solutions](#) | [Research Surveys](#) | [Tools](#) | [Developers](#) | [Upgrade Your Account](#)  
Copyright © 2010 LinkedIn Corporation. All rights reserved. | [User Agreement](#) | [Privacy Policy](#) | [Copyright Policy](#)

# Getting an API Key

## LinkedIn Developer Network

### Add New Application

Fill out the form to register a new application:

#### Company Info

\* Company:

Account Administrators: You will be assigned as an account administrator.

Additional Administrators:

Administrators appearing here will be account administrators for all applications from this company. Administrators can edit application details and add/remove other administrators and developers.

#### Application Info

\* Application Name:

\* Description:

Integration URL:

Example URL where the integration will go live.

App Logo Secure URL:

URL of an 80x80 logo for your app. SSL is required now.

JavaScript API Domain:

# Getting an API Key

## LinkedIn Developer Network

### Add New Application

Fill out the form to register a new application:

#### Company Info

\* Company:

Account Administrators: You will be assigned as an account administrator.

Additional Administrators:

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#### Application Info

\* Application Name:

\* Description:

Integration URL:

Example URL where the integration will go live.

App Logo Secure URL:

URL of an 80x80 logo for your app. SSL is required now.

JavaScript API Domain:

# Getting an API Key

- API Key: Used to make requests
- API Secret: not needed

# Sign in With LinkedIn

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# Sign in with LinkedIn

```
<!DOCTYPE>
<html>
<head>
  <title>LinkedIn JavaScript API</title>
  <script type="text/javascript" src="http://platform.linkedin.com/in.js">
    api_key: 7TUS2_LeCD_vLuUE0L9ew35dh-tYtWkZDk4lQm6LYbcdVXgRELNWUMx1
    authorize: false
  </script>
</head>
<body>
  <script type="IN/Login">
    Logged in as <?js= firstName ?> <?js= lastName ?>
  </script>
</body>
</html>
```

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<head>
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    authorize: false
  </script>
</head>
<body>
  <script type="IN/Login">
    Logged in as <?js= firstName ?> <?js= lastName ?>
  </script>
</body>
</html>
```

# Sign in with LinkedIn

- **api\_key**: The API Key received during signup on [developer.linkedin.com](https://developer.linkedin.com)
- **authorize**: Either "true" or "false". If "false", the user will not be automatically logged in for API calls.

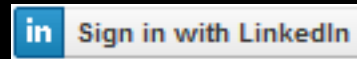
# Sign in with LinkedIn

```
<!DOCTYPE>
<html>
<head>
  <title>LinkedIn JavaScript API</title>
  <script type="text/javascript" src="http://platform.linkedin.com/in.js">
    api_key: 7TUS2_LeCD_vLuUE0L9ew35dh-tYtWkZDk4lQm6LYbcdVXgRELNWUMxl
    authorize: false
  </script>
</head>
<body>
  <script type="IN/Login">
    Logged in as <?js= firstName ?> <?js= lastName ?>
  </script>
</body>
</html>
```

# Sign in with LinkedIn

- **data-onAuth:** Name of a function to run when the user authorizes your site
- **data-onLogout:** Name of a function to run when the user logs off your site and LinkedIn

# Sign in with LinkedIn



# Retrieve a Profile

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# Retrieve a Profile

```
<script type="IN/Login" data-onAuth="getProfile">  
  Logged in as <?js= firstName ?> <?js= lastName ?>  
</script>
```



# Retrieve a Profile

```
function getProfile() {
  IN.API.Profile("url=http://www.linkedin.com/in/jakobheuser")
    .fields("firstName", "lastName", "industry", "distance", "summary")
    .result(function(res) {
      var user = res.values[0],
          tmpl = ["<p>{firstName} {lastName} works in ",
                 "the {industry} industry. You are {distance} degree(s) ",
                 "away in the network. What follows is their summary.",
                 "</p><p>{summary}</p>"].join("");

      for (var name in user) {
        tmpl = tmpl.replace(new RegExp("{"+name+"}", "g"), user[name]);
      }

      document.getElementById("profile").innerHTML = tmpl;
    });
}
```

# Retrieve a Profile

```
function getProfile() {
    IN.API.Profile("url=http://www.linkedin.com/in/jakobheuser")
        .fields("firstName", "lastName", "industry", "distance", "summary")
        .result(function(res) {
            var user = res.values[0],
                tmpl = ["<p>{firstName} {lastName} works in ",
                    "the {industry} industry. You are {distance} degree(s) ",
                    "away in the network. What follows is their summary.",
                    "</p><p>{summary}</p>"].join("");

            for (var name in user) {
                tmpl = tmpl.replace(new RegExp("{"+name+"}", "g"), user[name]);
            }

            document.getElementById("profile").innerHTML = tmpl;
        });
}
```

# IN.API.Profile(1).fields(2).result(3)

(1) The member IDs to get:

- (1) url=http://www.linkedin.com/in/jakobheuser
- (2) mx\_82djaa (member token)
- (3) The keyword "me" (current user)

# IN.API.Profile(1).fields(2).result(3)

(1) The member IDs to get

(2) The fields to return:

(1) camelCase names

(2) <http://developer.linkedin.com/docs/DOC-1061>

# IN.API.Profile(1).fields(2).result(3)

(1) The member IDs to get

(2) The fields to return

(3) A callback function for the result (2 ways)

(1) The function itself

OR

(1) The function itself

(2) A scope to run the function in

# IN.API.Profile(1).fields(2).result(3)

- (1) The member IDs to get
- (2) The fields to return
- (3) A callback function for the result
- (4) Additional Chained Methods
  - (1) .error() is identical to result() for errors
  - (2) .params() passes key-value pairs to the API

# .result(myFunction(r) {...}, [scope])

- The variable "r" is a JavaScript Object
- Contains "values" for collections of items
- Similar to the XML REST API

# Get the Current User's Connections

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# Get the Current User's Connections

```
<script type="IN/Login" data-onAuth="getProfile, getConnections">  
  Logged in as <?js= firstName ?> <?js= lastName ?>  
</script>
```

# Get the Current User's Connections

```
function getConnections() {
  IN.API.Connections("me")
    .fields("firstName", "lastName", "pictureUrl", "publicProfileUrl")
    .result(function(res) {
      var users = [], total = res.total, values=res.values
      tmpl = ['<li style="float: left;"><a href="{publicProfileUrl}">',
        '',
        '</a></li>'].join("");
      for (var name in user) {
        tmpl = tmpl.replace(new RegExp("{}+name+", "g"), user[name]);
      }

      document.getElementById("connections").innerHTML = tmpl;
    });
}
```

# Get the Current User's Connections

```
function getConnections() {
  IN.API.Connections("me")
  .fields("firstName", "lastName", "pictureUrl", "publicProfileUrl")
  .result(function(res) {
    var users = [], total = res.total, values=res.values
    tmpl = ['<li style="float: left;"><a href="{publicProfileUrl}">',
           '',
           '</a></li>'].join("");
    for (var name in user) {
      tmpl = tmpl.replace(new RegExp("{"+name+"}", "g"), user[name]);
    }

    document.getElementById("connections").innerHTML = tmpl;
  });
}
```

# IN.API.Connections()

- Similar format to IN.API.Profile()
- Supports .fields()
- Supports .result() and .error()
- Supports .params()
  - count: The number of results to return
  - start: Index to begin returning results at
- <http://developer.linkedin.com/docs/DOC-1004>

# Search LinkedIn

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# Search LinkedIn

```
<script type="IN/Login" data-onAuth="getProfile, getConnections, doSearch">  
  Logged in as <?js= firstName ?> <?js= lastName ?>  
</script>
```

# Search LinkedIn

```
function getSearch() {  
    var output = "";  
    IN.API.PeopleSearch().fields("firstName", "lastName")  
    .params({  
        "current-company": "false",  
        "company-name": "yahoo",  
        "sort": "distance"  
    })  
    .result(function(res) {  
        var values = res.people.values;  
        for (var i = 0, len = values.length; i < len; i++) {  
            var user = values[i];  
            output += "<li>"+user.firstName+" "+user.lastName+"</li>";  
        }  
  
        document.getElementById("search").innerHTML = "<ul>"+output+"</ul>";  
    });  
}
```

# Search LinkedIn

```
function getSearch() {
  var output = "";
  IN.API.PeopleSearch().fields("firstName", "lastName")
  .params({
    "current-company": "true",
    "company-name": "linkedin",
    "sort": "distance"
  })
  .result(function(res) {
    var values = res.people.values;
    for (var i = 0, len = values.length; i < len; i++) {
      var user = values[i];
      output += "<li>" + user.firstName + " " + user.lastName + "</li>";
    }

    document.getElementById("search").innerHTML = "<ul>" + output + "</ul>";
  });
}
```



# IN.API.PeopleSearch()

- Doesn't need ids passed in
- Uses .params() for search settings
- <http://developer.linkedin.com/docs/DOC-1191>

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# RAW API Sample

```
function setCurrentStatus(status) {  
  IN.API.Raw("/people/~/current-status")  
  .method("PUT")  
  .body('"' + status + '"')  
  .result(function() {  
    document.getElementById("updateStatus").innerHTML = status;  
  });  
}
```

# IN.API.Raw(1).method(2).body(3)...

(1) The raw REST url starting from  
<https://api.linkedin.com/v1>

- (1) Does not need to include GET parameters
- (2) Requires the use of "~" for current user

# IN.API.Raw(1).method(2).body(3)...

(1) The raw REST url starting from  
<https://api.linkedin.com/v1>

(2) The method (default is GET)

(1) POST

(2) PUT

(3) DELETE (if your browser supports it)

# IN.API.Raw(1).method(2).body(3)...

- (1) The raw REST url starting from `https://api.linkedin.com/v1`
- (2) The method (default is GET)
- (3) Your JSON-friendly body
  - (1) For POST/PUT
  - (2) Can also be a single primitive (like our status string)

`.body(3).params(4).result(5)`

(4) Same as other APIs

(4) Will add key-value pairs to GET requests

# .body(3).params(4).result(5)

(4) Same as other APIs

(5) Same as other APIs

(1) .error() also supported



# LinkedIn Labs ([linkedinlabs.com](http://linkedinlabs.com))

- Collection of LinkedIn Hackday Winners
- Cool ideas and inspiration
- Working examples of the JavaScript APIs

# Resources

- <http://developer.linkedin.com>
  - Developer Forums
  - API Documentation
  
- <http://linkd.in/jsapi-s2n>
  - Code samples from today

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