

# David Dahl

## SUMMARY

Long time HTML Superfan, python nerd and node.js enthusuast, I have worked in many industries as a developer, engineering manager, researcher and fundraiser - at micro and macro scales. I am a pragmatic engineer with many years experience working with the best and brightest in the software industry

## WORK EXPERIENCE

### IBM (Raleigh, NC)

*Software Engineering Researcher, 2017 - present*

- ▶ As a member of the Web Platform team, I architect and implement scalable tools to help IBM with web security, privacy, internal website tooling and web standards
- ▶ I am currently building systems with Python and Node

*Advisory Software Engineer, 2016 - 2017*

- ▶ I advised teams and wrote code for the IBM Marketplace
- ▶ The stack was largely node.js, React, NoSQL

### SpiderOak (Chicago, IL)

*Director, Crypton project, 2013 - 2016*

- ▶ Directed an engineering team building a privacy framework for mobile devices
- ▶ Helped raise a round of funding to continue the Crypton project
- ▶ Wrote much of the code in the Crypton framework (Node.js, Postgres, redis, Socket.io)
- ▶ Built *Klook* private social network application for iOS and Android

### Mozilla Corp (Mountain View, CA)

*Senior Software Engineer, Privacy, 2012 - 2013*

- ▶ I worked on new and existing browser features and WebAPIs to increase user privacy and security
- ▶ Engineer on Firefox OS user privileges code
- ▶ I was focused on implementing *DOMCrypt* in Gecko/Firefox, which was an initial straw-man proposal for the W3C Web Cryptography Working Group
- ▶ Implemented `window.crypto.getRandomValues` in Firefox

*Firefox Engineer, 2009 - 2012*

- ▶ Front-end Firefox browser features, developer tools, browser Identity
- ▶ Implemented the original Web Console developer tool:
- ▶ Web Console frontend and backend code

### Industrial Light + Magic (San Francisco, CA)

*Software Engineer, 2007 - 2008*

- ▶ ILM training department. I built Python / Django / ffmpeg-based tools for training artists, software engineers and other technical staff at ILM, LucasArts, Lucas Animation and Lucasfilm with a userbase of 1000

## EDUCATION

**I am a self-taught engineer**

*I have many mentors at ILM, Mozilla, Google, Facebook and IBM to be thankful for*

## SKILLS

Very experienced with Linux, Python, JavaScript, CSS, HTML, C++  
Node, Express, npm, yarn, webpack, React, Django  
Postgresql (including replication), MySQL, SQLite, Redis, CouchDB / Cloudant  
Raspberry Pi, hardware sensors, etc  
Evaluation and recommendations for technology, teams, business processes

## TALKS / WRITING / TEACHING

Defcon 23: Crypto Village: **Anti-social Networking**

- ▶ A talk on the Kloak application I created at SpiderOak that functions like Twitter but is end to end encrypted
- ▶ <https://bit.ly/2JoSNbu>

Future Insights Live: **Privacy is a UX Problem**

- ▶ Privacy is not simply a technical issue. More designers are needed to solve privacy applicaiton issues
- ▶ <https://bit.ly/2Jr80Jd>

Hack in the Box Malaysia: **Crypton Workshop**

- ▶ <https://bit.ly/2JaB2JC>
- ▶ Live-coding workshop on **Crypton**

**Crypton Whitepaper**

- ▶ Crypton paper produced for Hack In The Box conference
- ▶ <https://bit.ly/2Jbubjg>

## LINKS

Website

- ▶ <https://txt.ist>

Github

- ▶ <https://github.com/daviddahl/>