

# David Dahl

## SUMMARY

Long time HTML superfan, python *nerd* and node.js *enthusiast*, 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** <https://ibm.com> (Durham, 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** <https://spideroak.com> (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 *Kloak* private social network application for iOS and Android
- ▶ See *Kloak* slide deck: <https://bit.ly/2sorG6P>

**Mozilla Corporation** <https://mozilla.org> (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** <https://ilm.com> (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/>

*This Up-to-date resume*

- ▶ [https://txt.ist/David\\_Dahl\\_resume.pdf](https://txt.ist/David_Dahl_resume.pdf)