ddahl@nulltxt.se

David Dahl

SUMMARY

Long time `HTML superfan`, python *nerd* and `node.js` *enthusiast*, I have worked as a developer, engineering manager, researcher and fundraiser - at micro and macro scales. I am a pragmatic engineer with many years of 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 design and implement scalable tools to help IBM with web security, privacy, internal tooling and web standards
- Designed and implemented enterprise-capable GDPR tracking tool which surfaces compliance status to management
- Designed and implemented resource management system to track entire division spending on engineering, design and expenses
- Working intensly with node.js, Lighthouse & browser `User Timing API` to understand and rectify web page performance issues
- Currently building systems with Python / Django / PostgreSQL and Node.js

Advisory Software Engineer, 2016 - 2017

- I advised teams and wrote code (node.js, CSS, CouchDB) for the IBM Marketplace
- Helped build IBM.com search UI with SearchKit, TypeScript and React

SpiderOak https://spideroak.com (Chicago, IL)

Director, Crypton project, 2013 - 2016

- Directed an engineering team building a privacy framework for mobile devices
- Source code: https://bit.ly/2JdzsGW
- Helped raise a round of funding ($2 MM) to continue the Crypton project
- Wrote code for the Crypton framework (Node.js, PostgreSQL)
- Built *Kloak* private social network application for iOS and Android

Mozilla Corporation https://mozilla.org (Mountain View, CA)

Senior Software Engineer, Privacy, 2012 - 2013

- Worked on new and existing browser features and WebAPIs to increase user privacy
- Engineer on Firefox OS user privileges code
- Worked on implementing `DOMCrypt` in Gecko/Firefox, which was an initial strawman proposal for the `W3C Web Cryptography Working Group`, https://bit.ly/2JcCS0M https://mzl.la/2JhUzb2
- Implemented `window.crypto.getRandomValues` in Firefox, https://mzl.la/2JhP0JO https://mzl.la/2HkvQRR

Firefox Engineer, 2009 - 2012

- Created front-end browser features, developer tools, identity APIs
- Implemented the original `Web Console` developer tool, https://mzl.la/2JrzPBg
- Wrote `Web Console` frontend and backend code, https://mzl.la/1IOQVno

Industrial Light + Magic https://ilm.com (San Francisco, CA)

Software Engineer, 2007 - 2008

- Built Python / Django / ffmpeg-based tools for training artists, software engineers and other technical staff at ILM, LucasArts, Lucas Animation and Lucasfilm

EDUCATION

Self-taught engineer

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

SKILLS

Expert with Linux, Python, JavaScript, CSS, HTML, SQL, automated testing
Node, Express, npm & yarn, webpack, TypeScript, React, Django
Postgresql (including replication), MySQL, SQLite, Redis
PhoneGap / Cordova, CouchDB / Cloudant
Evaluation and recommendations for technology, teams, business processes
Very Experienced with:
C, C++, make, Android toolchain, iOS toolchain, build process
Hobby programming with:
Raspberry Pi, hardware sensors, etc. https://github.com/daviddahl/radar

TALKS / WRITING / TEACHING

Defcon 23: Crypto Village: `Anti-social Networking`
  ▸ Presentation on the `Kloak` application I implemented 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 application 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
`Kloak Private Social Networking Application:` Slides
  ▸ Produced for `Investors and Management`
  ▸ https://bit.ly/2sorG6P
`Cato Institute: "NSA Surveillance: What We Know; What to Do About It"`
  ▸ Sat on the technology panel
  ▸ https://bit.ly/2xO8lAS

LINKS

Website
  ▸ https://txt.ist
Github
  ▸ https://github.com/daviddahl/
Latest Résumé
  ▸ https://txt.ist/David_Dahl_resume.pdf