

Skills

JavaScript, Ajax, Promises/A+, jQuery, Node, Express, REST, RDBMS, MongoDB, Backbone, Knockout
TDD, Build Tools, Team Git, Socket.io, API Integration, OAuth, D3, Bash, Docker, Python, Web Scraping

- + Well-versed in JavaScript and frontend technologies. Top 10% in Algorithms on [HackerRank](#).
- + Experienced in UI development and the engineering process of large-scale enterprise products.
- + Emphasis on tooling, automation, workflow, quality through tests, maintainability, and iteration cycles.

Experience

- Since 2015 **Cloudera, Inc.** — *Software Engineer - UI and Data Visualization*
Introduced improvements in build automation and dependency management in legacy code base
Evangelized for frontend technologies and practices to encourage code sharing amongst teams
Extended Google Analytics to collect data on usage patterns to inform user experience design
- 2013-2015 **Child Language Lab, Macquarie University** — Leading research center in linguistics
Worked on research analyzing speech data with the set of technologies that powers Apple's Siri
Gained extensive insight on research design and projects with a strong focus on data analysis
- 2012-2013 **Motvind, Inc., A Delaware Corporation** — A self-funded startup in the online learning space
Led remote engineering team using Agile tools and developed products for web-based learning
Acquired in-depth knowledge of product design, customer development, and Lean practices
- 2010-2012 **Southern Water, Tasmania** — Regulated utility, 800+ employees, \$2 billion in assets
Conducted engineering review of building & planning proposals in relation to water supply
Helped improve revenue by fast-tracking infrastructure pricing calculations for utility assets

Projects

- FerdX** — *One-click integration for extensible Slack bots* — [ferdx.io](#)
- Engineered modular bot logic powered by Node to offer beautifully structured information in Slack channels
 - Applied functional & reactive patterns using RxJS to process intermittent streams of asynchronous web events
 - Leveraged npm's ecosystem to cultivate a developer community for sharing and expanding bot capabilities
 - Launched dashboard interface built on Angular enabling Slack users to easily customize extension modules
- Slideshow** — *Vocabulary learning app with audio* — [de.sayberlin.com](#)
- Architected single-page app with Backbone following clean engineering patterns for structuring UI components
 - Furnished backend API using Node and Express, with audio resources loaded from static asset servers
- Typist** — *Typing game with audio* — [vok.firebaseio.com](#) [typist.firebaseio.com](#)
- Utilized jQuery and SoundManager to create an engaging user experience with interactive audio-visual effects
- Finn** — *Finnish-English dictionary with instant search* — [fi.sayberlin.com](#)
- Sourced and re-structured lexical data using Python libraries and abstracted the MongoDB layer as a service
 - Implemented fast, responsive interface with Angular and Express to display instant results as the user types

Education

- 2015 **Hack Reactor, San Francisco** — Advanced Software Engineering Workshops
- 2012-2015 **Macquarie University, Sydney, Australia** — Bachelor of Science (Speech and Hearing)
- 2013-2014 **University of Jyväskylä, Central Finland** — Exchange Program, Erasmus Student Network
- 2008-2009 **Tasmanian Polytechnic, Hobart, Australia** — Advanced Diploma of Engineering Design

Personal Interests

Linguistics, Teleportation (*fig.*), Neurogenesis, Cognition, VR, AI, Futurology, Livability, Architecture, Design, Puppies