

David Freidin

Software Engineer

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TECHNICAL SKILLS

Front-End Development - HTML, CSS, JQuery, AJAX, Bootstrap, Angular 6, React, Vue, Materialize
Languages – Python, JavaScript, Typescript, C/C++, Java, Verilog, Shell Scripting, Ruby
Databases - SQL (PostgreSQL, MySQL, SQLite), NoSQL (MongoDB)
Development Tools – AWS, Visual Studio Code, Serverless
Methodology – OOP, MVC, RESTful Architecture, CRUD Operation, GraphQL, TDD (RSpec)
Version Control - Git, Github, Gitlab, Perforce
Frameworks - Flask, Express, Django, Ruby on Rails
Libraries - Psycopg2, Graphene, Bcrypt, Mongoose, Socket.io, Underscore

WEB DEVELOPMENT PROJECTS

Game Knight – URL: gameknight.freidin.net GitHub: github.com/dfreidin/RailsGameNight

- + A website to help groups of friends decide what board game to play on game night
- + Built using Ruby on Rails, MySQL, Materialize, and the Board Game Geek API.

Collaborative Text Editor – URL: collabtext.freidin.net GitHub: github.com/dfreidin/MeanCollabText

- + A real-time online collaborative text editor
- + Built using MEAN Stack (MongoDB, Express, Angular, Node.js), Socket.io, and Bootstrap

More details available on my portfolio – URL: david.freidin.net

PROFESSIONAL EXPERIENCE

Software Engineer - Outward Inc.

Santa Clara, CA ▪ February 2019 to Present

- + Designed and implemented pipelines for retail client data
 - o Created automated ingestion pipelines from AWS S3 to Postgres databases
- + Created GraphQL backend APIs for client web applications
 - o Led a complete code refactoring effort for a major application
- + Technologies used:
 - o Python, Flask, Serverless, AWS, GraphQL, PostgreSQL, Git, Docker

Software Engineering Intern - Coding Dojo @ Outward Inc.

Santa Clara, CA ▪ November 2018 to February 2019

- + Developed and modified back-end data systems for retail client data
- + Improved the speed of several internal processes

Software Engineer - Code for Good

San Jose, CA ▪ June 2018 to November 2018

- + Worked on a team to build a web app for a local education non-profit organization

- + Added audio-binding to word fragments for students who are learning to read

Tutor - Club Z Tutoring

Santa Clara, CA ▪ May 2017 to April 2018

- + Tutored and taught mathematics topics from geometry through calculus
- + Worked with children from middle school through college

Software Quality Operations - Adecco Engineering & Technology @ Google

Mountain View, CA ▪ June 2015 to June 2016

- + Analyze log data from road tests of the Self Driving Car
- + Found the sources of problems encountered by the safety drivers
- + Worked with software engineers to identify best areas of improvement

Instructor - Mathnasium (Campbell-Los Gatos)

Campbell, CA ▪ September 2013 to June 2015

- + Tutored and taught mathematics topics from counting through calculus
- + Worked with children from elementary school through college

ASIC Engineer - Nvidia

Santa Clara, CA ▪ June 2010 to July 2012

- + Helped develop & maintain formal verification testbenches for Kepler pads
 - o Formal equivalency allowed for ~4x speedup in unit testbenches
- + DRAM interface pad-ring owner for Kepler chips
 - o Worked with layout to ensure proper placement and connection of pads and to resolve issues before tapeout
- + Wrote/verified pad behavioral models for Tegra & Maxwell
 - o Allowed for accurate unit testing month before extracted models became available
- + FB tree owner for gk107
 - o Ran unit-level random regressions and handled changelist integrations for the gk107 FB unit tree

EDUCATION

Coding Dojo - San Jose, CA – 2018

Certificate of Completion – Full Stack Web Developer

- + An immersive web development bootcamp specializing in front-end fundamentals as well as three full stacks: Django, MEAN and Ruby on Rails. Dedicated over 1000+ hours of coding experience, including the ability to deploy a full website from client to server to database while acquiring the knowledge and skills for full stack web development

Purdue University - West Lafayette, IN – 2010

BS in Computer Engineering, Minor in Music History & Theory

HONORS

- + Tau Beta Pi Engineering Honors Society
- + National Society of Collegiate Scholars
- + Alpha Lambda Delta Phi Eta Sigma Honors Society

References available upon request