ALEX WAPNIARSKI - Software Engineer

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S K I L L S

Languages	JavaScript | Python | Swift | HTML5 | CSS3
Front End	AngularJS | jQuery | AJAX | Bootstrap | Materalize
Back End	Node.js | Flask | Express.js | Socket.IO | AWS EC2 | Nginx
Database	MongoDB | MySQL | SQL | NoSQL
Software	Git | Xcode | Unix | Linux | Photoshop | Illustrator
Misc	Scrum | AutoCAD | PTC Creo | SolidWorks | 3D Studio Max | Microsoft Office Suite

P R O J E C T S

Typing Dojo <http://typing-dojo.alexw.tech/>   2016

- Typing Dojo is a typing game that lets users race against other users in real time using web sockets. Typing Dojo is a solo project that demonstrates the full MEAN stack.
- Technologies used: JavaScript, MongoDB, Express.js, AngularJS, Node.js, Socket.IO, jQuery, Materialize, AWS EC2, Git, HTML, CSS.

Crime Dodger <http://crime-dodger.alexw.tech/>   2016

- Lead developer on a team project that utilized Data.gov information and Google Maps API to map crime throughout the city of San Francisco and generate directions.
- Primarily responsible for delegating tasks, version control, deployment, Socrata Open Data, Google Maps JavaScript API.
- Technologies used: JavaScript, Python, MySQL, jQuery, HTML, CSS, Bootstrap, MVC, AWS EC2, Git, Socrata Open Data, and Google Maps JavaScript API.

User Dashboard <http://user-dashboard.alexw.tech/>   2016

- Solely created an application that demonstrates an MVC Framework, login with registration, validation, Bootstrap, and a relational database.
- Technologies used: Python, MySQL, Flask, Pylot (MVC Python Framework), Bootstrap, AWS EC2, Git, HTML, CSS

Snippet <https://github.com/alex-wap/snippet>   2016

- Snippet is an iOS application that allows the user to write and store code snippets. It is a text editor with a built-in chat feature to share your code with others around the web. It uses a custom keyboard and web sockets. Snippet is a team project.
- Primarily responsible for implementation of web sockets in iOS, implementation of Node.js server for web chat, version control, and auto layout.
- Technologies used: Swift, JavaScript, Express.js, Node.js, Socket.IO, Xcode 7.3.1.
- iOS Concepts: Storyboard, Auto Layout, Table View, Custom Cell, Core Data (Data Persistence), Tab View Controller, Navigation Controller, Protocols, Delegates, CocoaPods.

E X P E R I E N C E

Coding Dojo — San Jose, CA

Resident Engineer — 2016-Present

- Developed an iOS application with an instructor to teach students core concepts in Swift and iOS development <https://github.com/alex-wap/iosGlossary>
- Deployed multiple web applications to the same AWS EC2 instance using subdomains and Nginx as a reverse proxy; Created a tutorial for the process <https://github.com/alex-wap/subdomains>
- Deployed 6 Amazon Alexa skills to the Amazon Alexa App Store <https://github.com/alex-wap/alexa_skills>
- Trained in Scrum development framework and agile development at FMFA inc.
- Working as Teaching Assistant for students in immersive, full stack web development program.

Industrial Electric Manufacturing — Fremont, CA

Design Engineer — 2011-2016

- Designed 60+ switchgear assemblies with the Product Development team
- Produced 200+ technical drawings for prototypes, bus bars, and sheet metal assembly designs
- Programmed and validated 1100+ G-Code files for CNC machines to manufacture sheet metal components
- Conducted 100+ BIL (Basic Impulse Level) tests, corona tests, and temperature rise tests, for switchgear equipment for UL certification at KEMA (Chalfont, PA), Schneider Electric (Cedar Rapids, IA), and IEM.
- Assisted and supported Production Team to produce 500+ switchgear sections for data center applications
- Trained remote employee to use Creo software for 3D design and technical drawing creation

E D U C A T I O N

Coding Dojo — San Jose, CA

Immersive, full stack web development program. 1200+ hours of coding experience. — 2016

University of California, Berkeley — Berkeley, CA

Bachelor of Science, Mechanical Engineering — 2007-2011

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