

Kevin Wu

Software engineer with startup and extensive JavaScript/front-end background; with experience and interest in high-impact and formative roles.

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Experience

United States Census Bureau - Civic Digital Fellow Washington, D.C. (June - Aug 2018)

Python (Jupyter Notebook, Pandas, Scrapy, BeautifulSoup), JavaScript (React)

- Extremely selective (35 of 850) civic tech fellowship through Coding it Forward, working in the US Census Bureau to improve survey of juvenile residential facilities across USA
- Engineered a system for automating a previously human-driven process, saving thousands of hours
- Implemented a reusable tool in React.js for fast human validation of data, speeding up non-automatable validation and the creation of machine learning training sets
- Reported and presented work and results to senior leadership, incl. the Director of the Census

Electric Power Engineers - Software Engineer (Full Stack) Austin, TX (May - August 2017)

Python (Django, SQLite), JavaScript, ArcGIS

- One of two engineers; responsible for leading major refactor of 10K+ lines of legacy JavaScript code
- Developed Django integration and new features for GridSight, an ArcGIS visualization web app used by power and utility companies across Texas to track usage, grid connectivity, and fleet location

StratoDem Analytics - Software Engineer (JS/front-end) Boston, MA (May - August 2016)

JavaScript (jQuery), Python (Django)

- Developed JavaScript map visualization modules for real estate analytics, deployed in multiple locations across StratoDem's flagship web app
- Adapted Panopticon (a previous personal project) for internal project and status tracking, leading to improved team-wide collaboration and progress monitoring

Affinegy - Software Engineer Austin, TX (May - August 2015)

Linux, Docker, C++

- Deployed, documented, and automated internal build processes to prepare for launch of flagship IoT interconnectivity app
- Configured package distribution servers and application-specific virtual machines

Personal projects

Kythera (*Node.js, ANTLR*) gitlab.com/dejawu/kythera (April 2017 - Present)

- Specification and implementation of a source-to-source compiler for a statically typed programming language that compiles to modern JavaScript
- Prototyped language specification by building an interpreter in Java with ANTLR, a parser generator
- Motivated by frustration with JavaScript's weak typing, inconsistencies, and other baggage

Nanote (*Go, MySQL, React*) nanote.co (November 2015 - Present)

- Developed, deployed, and maintained a full-featured cross-platform note-taking web app built on Markdown and LaTeX with privacy and sharing controls
- Originally created for personal use to address Evernote's shortcomings, still in use daily

Panopticon (*Node.js, jQuery*) (January - September 2015)

- Designed and built an always-on status board that displays weather, calendar events, upcoming schoolwork, and more in an elegant manner
- Later revisited and adapted for use at StratoDem Analytics

Education

University of Texas at Austin August 2014 - December 2018

Cockrell School of Engineering B.S. Computer Engineering