

# Holly Wu

Software engineer with extensive full stack web background, with experience and interest in high-impact and formative roles.

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## Experience

**Centene Corporation** - Software Engineer (Full Stack) Arlington, VA (February 2019 - Present)

*JavaScript, TypeScript, Flow, React, MongoDB, Docker*

- Built features and technical enhancements on all parts of Digital Product Engineering team's codebase, ranging from front-end, back-end, and devops
- Created tools and performed refactors to reduce technical debt
- Worked with UX and Product teams to provide better end-user experiences for healthcare customers

**United States Census Bureau** - Civic Digital Fellow Washington, DC (June - August 2018)

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

- 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 the USA
- 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 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 a previous personal project for internal project and status visualization, leading to improved team-wide collaboration and understanding of progress

## Personal projects

**Kythera** (*Node.js, Java/JVM, Rust*) [gitlab.com/dejawu/kythera](https://gitlab.com/dejawu/kythera) (April 2017 - Present)

- Specification and implementation of a source-to-source compiler for a statically typed programming language motivated by frustration with JavaScript's weak typing, inconsistencies, and other baggage
- Prototyped language specification by building an interpreter in Java with ANTLR, a parser generator
- In-progress Rust compiler backend targeting a custom bytecode VM

**Nanote** (*Go, MySQL, React*) [gitlab.com/dejawu/nanote](https://gitlab.com/dejawu/nanote) (November 2015 - November 2018)

- 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; used daily

## Education

**University of Texas at Austin**

Cockrell School of Engineering

August 2014 - December 2018

B.S. Computer Engineering