

Work Experience

Garmin International: Software Engineer II Summer 2013 – Present

- Develop embedded software in C for Garmin's Integrated Flight Deck.
- Develop APIs on top of custom communication protocols to connect various cockpit components.
- Create custom UI menus for Autopilot configurations.
- Past work includes System Uploads, System Integration, Weather and Traffic Data, and Database Synchronization.
- Design high-level requirements for custom feature modifications.
- Design testing based on requirements to ensure code fulfills intended purpose.
- Follow FAA regulations in all phases of the software life cycle.

PTLink, Inc.: Software Engineer, UI Developer, and Product Design Spring 2013 – Winter 2013

- Included a custom iPhone application and API built on Django/PostgreSQL.
- Co-Won a venture fund startup competition put on by The University of Tennessee's Boyd Venture Fund.

UT Social Work Office of Research and Public Service: Fall 2012 – Spring 2013

- Wrote knockout.js and jQuery for a large-scale .NET application used in schools across Tennessee and redesigned the aesthetics of the web application.
- General IT for a team of ten.

Education

University of Tennessee: Bachelor of Science in Computer Engineering Spring 2013

- Coursework in Algorithms, Machine Learning, and Mobile Applications Development

Projects

Peering: Developer and Designer Fall 2013

- Mobile dating application built on top of Instagram; built for iOS on a Django/PostgreSQL API.
- Won third place out of thirty-six competing projects at Kansas City Startup Weekend.

Basil: Developer and Designer Spring 2013

- Electronic medical record app used in underprivileged countries in a "Doctors without Borders" scenario.
- Field-tested in Haiti by the non-profit Humanitarian Health International.
- Interviewed as a non-profit candidate for start-up accelerator Y-Combinator.
- iOS app built with a Django/PostgreSQL back end.
- Honors Thesis publication: EMR iPad Application<http://trace.tennessee.edu/utk_chanhonoproj/1627/>

Luminent: Developer and Designer

- Created a web site to view congressional affiliations, voting records, and major campaign contributors.
- Web app built with Bootstrap, JavaScript, and Django.

Languages and Technologies

Experienced in C, Python, HTML, CSS, Objective-C and iOS application design and development. Experienced with Atlassian project management tools. Experienced with continuous integration through Git and Jenkins. Familiar with a LAMP stack, Python and Django, and JavaScript and jQuery. Experienced with AWS— specifically EC2 and system administration. Familiar with Photoshop and design principles.

Volunteering and Other Interests

Django Girls Mentor, Harvesters volunteering, Kansas City Neighborhood Academy cleanup. I co-chaired a social committee for Garmin Aviation for three years planning events. In my free time I like to paint, draw, write poetry, play piano or create other vignettes that come to mind in various forms.