Rutger Farry

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Experience

Student Software Engineer II
Center for Applied Systems and Software : January 2016 - December 2017
Built translation layer for research project creating fault-tolerant, self-provisioning software deployments. Designed and led development for center's first iOS application. Designed architecture for Java API providing Common Core assessment tests to over 7 million students. Python, Haskell, iOS, Java, C#, TypeScript, React.js, Apache Tomcat, Amazon Web Services (AWS).

Software Developer and Entrepreneurship Intern
Cambia Health Solutions : June 2016 - September 2016
Added features to and maintained Ruby on Rails web app designed to coach National Guard Reserves. Helped reduce page load times by ~ 40% through caching and minimizing HTTP calls. Ruby on Rails, Javascript, PostgreSQL.

iOS Engineering Intern
Jive Software : June 2015 - September 2015
Added search page and iPad support to iOS app used by hundreds of Fortune 500 companies to manage support forums. Gained experience with testing and working on a geographically distributed team. Presented 5-year business plan to over 50 employees watching in person and over live stream. Swift, Core Data, XCTest, Jira, HockeyApp.

Undergraduate Research Assistant
Oregon State VLSI Research Group : November 2014 - June 2015
Authored iOS app to communicate with ARM-based smart clothing developed at OSU. Implemented iOS side of compression algorithm in C, increasing clothing battery life over 100x. Co-authored paper presented at MIT (see below). Hired and trained student employees. Swift, Objective-C, Embedded C, Core Bluetooth.

Education

Bachelor of Science, Computer Science
Oregon State University : September 2013 - December 2017 : 3.4 GPA
Courses: Algorithms, Artifical Intelligence, Operating Systems, Compilers, Networking, Data Structures, Databases, Digital Logic Design, Software Engineering.

Papers

Rate-Adaptive Compressed-Sensing and Sparsity Variance of Biomedical Signals
BSN 2015 – Cambridge, MA

Skills

Software: Xcode, Git, Linux, Docker, Sketch, Photoshop, MongoDB, Postgres, Visual Studio
Languages and Frameworks: Swift, Javascript, Typescript, Objective-C, Python, C, HTML, CSS, Sass, SQL, Haskell, OCaml, Ruby, C#, .NET

Extracurricular Activities and Awards

Classmere - Personal Project
Full-stack web & mobile development project : April 2015 - Current
Built open-source website and published iOS app that suggests classes for students based on their friends, schedule, and other metrics. Node.js, Swift, Docker, Kubernetes, MongoDB, Elm.

App Club
President : September 2014 - 2015, Vice-President : September 2015 - June 2017
Held weekly meetings to tutor students in app development. Collaborated with other organizations and colleges to organize hackathons and tech talks. Created new positions to manage club affairs. Started fund for advertising, hackathons, etc.

People's Choice Award
OSU Undergraduate Engineering Expo : 2017
Presented my team's senior project, an iOS app for gyms at the 2017 Oregon State undergraduate engineering expo, winning People's Choice Award.

Cycling Club
Race Director : September 2016 - June 2017
Organized multi-day bike race with over 200 competitors and 12 competing universities. Worked with city, county, police, and university to close roads, recruit volunteers, provide race infrastructure and more. As a cycling club member, traveled over 4,500 miles in a span of six weekends to participate in races while working as a student developer and maintaining grades.

Engineering Leadership Academy
Member : February 2014 - June 2017
Attended conferences and talks by professionals in various engineering fields. Connected with OSU alumni in engineering and management positions.