Rutger Farry

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Experience

Center for Applied Systems and Software
Student Software Engineer II : January 2016 - Current
Built translation layer for research project creating fault-tolerant, self-provisioning, self-healing 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).

Cambia Health Solutions
Software Developer and Entrepreneurship Intern : 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.

Jive Software
iOS Engineering Intern : 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.

Oregon State VLSI Research Group
Undergraduate Research Assistant : 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. Hired and trained student employees. Swift, Objective-C, Embedded C, Core Bluetooth.

Education

Bachelor of Science, Computer Science
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, Objective-C, Javascript, OCaml,* Typescript, C, HTML, CSS, Sass, Haskell, Ruby, Python, SQL, C#, .NET

Extracurricular Activities and Awards

People's Choice Award – OSU Undergraduate Engineering Expo
2017
Presented senior project for the 2016-2017 school year, winning People's Choice at the 2017 Oregon State undergraduate engineering expo.

Cycling Club
Race Director : September 2016 - Current
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.

App Club
President : September 2014 - 2015, Vice-President : September 2015 - Current
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.

Classmere - Personal Project
Web Design Project : April 2015 - Current
Built open-source website and iOS app that suggests classes for students based on their friends, schedule, and other metrics. Node.js, Docker, Kubernetes, MongoDB, Elm.

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