

Renfred Harper

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www.renf.red

Education

Fall 2011 - **B.S. Computer Science**, *George Mason University*, Fairfax, VA.
Spring 2015 GPA 3.8 / 4.0

Experience

Summer **Software Engineer**, *Sourcegraph*, San Francisco, CA.

2015 - — Developed full-stack features for a code-search and code browsing product with Go and Typescript.

Present — Worked on real-time distributed text editing and filesystem manipulation systems.

— Maintained our GraphQL authentication and data access API using Redis and PostgreSQL.

— Created and scaled static-analysis services for Python and Swift.

Summer **Software Developer Intern**, *Shopify*, Ottawa, ON.

2014 — Worked as part of a team of engineers developing and maintaining a Ruby on Rails web application that supported the retail operations of over 100,000 merchants.

Fall 2013 - **Software Developer**, *Triple Tech Inc.*, Reston, VA.

Summer — Developed an indoor mapping web application for monitoring the conditions of fire safety equipment
2015 deployed in nuclear power plants using the Grails framework and JavaScript.

Fall **Undergraduate Teaching Assistant**, *GMU Computer Science Department*, Fairfax, VA.

2013 — Assisted professors with instructing an introductory programming course in Python.

Summer **Web Developer**, *Freelance*, Fairfax, VA.

2013 — Developed new brochure website and administration backend for managing event data for a university events production department using JavaScript and PHP.

Projects

CompileBot, github.com/renfredxh/compilebot.

— A bot written in Python that can execute source code in comments on reddit by a user's request.

— Developed a spam detection algorithm that can notify moderators if usage of the bot is abused.

Snueue, github.com/renfredxh/snueue.

— An application built using Python and Flask that loads and plays an automated queue of media based on crowdsourced submissions on reddit.

— Created a media controller that uses the React JavaScript framework to dynamically display audio and video using various interfaces including the YouTube embedded Player API.

Pulse, github.com/renfredxh/pulse.

— An interactive web-based instrument built using Ruby on Rails and Backbone.js.

— Developed a client-side application for dynamically loading and playing dozens of audio files synchronously.

Technical Skills

Languages: Go, Python, TypeScript, JavaScript, HTML/CSS

Tools: Docker, Kubernetes, React, Flask, Git, Linux/UNIX

Extra

— Contributor to open source projects - see <https://github.com/renfredxh>

— Winner of the BitCamp 2014 hackathon for “Best Big Data Visualization”

— Treasurer of GMU Student-Run Computing and Technology