Waverly Roeger

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(806) 239-6854
Backend Software Engineer
New York City area (Stamford, CT)
wroeger
RogueWaverly

Languages Python, C++, Java, C, PostgreSQL **Tools** Django, Git, Linux, AWS, Docker

Experience

Lead Backend Engineer
June 2019 — March 2021
Beam Impact
New York, NY

- Independently owned the backend codebase of all major projects, mostly built with Python, Django, PostgreSQL, and Docker on AWS Elastic Beanstalk, and integrated with third-party APIs and libraries such as Plaid, SendGrid, Klaviyo, Mailchimp, Amazon SES, and Celery
- Designed and developed the Beam SDK integration backend (for mobile and web) from scratch to launch and beyond, as well as the upcoming partner portal, unification of the Beam app and SDK, and client-specific projects, including complete database models, API endpoints, software infrastructure and architecture, test suites, and configurable features
- Proactively improved the existing Beam app and newly launched SDK integration backends through app redesigns, major code refactors, new features, and everyday maintenance
- Developed a set of code standards and best practices for the backend including thorough documentation practices, comprehensive test suites, and long-term strategies for scale and security, and actively contributed to building the startup's initial structure and culture

Software Developer
July 2017 — May 2019
Lawrence Livermore National Laboratory
Livermore, CA

- Independently designed a complex database for the Virtual Test Library using Python and Django, redesigned and created dynamic web pages to navigate the library and make queries, and automated revising metadata inconsistencies using regular expressions in Java
- Researched and improved a spiking neuron algorithm to solve a quadratic unconstrained binary optimization graph theory problem run on IBM's TrueNorth neurosynaptic hardware using Python and Matplotlib, and presented results

Software Engineer Intern
May 2016 — August 2016
Garmin International
Chandler, AZ

- Developed full-stack software, including internal firmware update functionality, in Objective-C for the Mac application VIRB Edit supporting Garmin VIRB series action cameras, learning Objective-C on the job

Leadership

Facilitator
September 2017 — February 2019
Girls Who Code, *Christensen Middle School*
Livermore, CA

- Led a middle school club of 30 students through a project-based curriculum each week, teaching the computer science fundamentals—variables, conditionals, loops, functions—and fostering community

President
May 2015 — May 2017
Women in Computer Science, *Arizona State University*
Tempe, AZ

- Improved organization structure and organized 50+ networking, professional development, outreach, and social events
- Coordinated the annual Programming Competition by securing required support and materials, creating programming challenges of varying difficulty, and directing the day-long event

Education

Bachelor of Science in Computer Science
May 2017
Barrett, the Honors College at Arizona State University
Tempe, AZ

- **Honors** *summa cum laude* (3.83 GPA), New American University Scholar (National Merit finalist)
- **Thesis** Mazes of Waverly Place: Interactive Algorithmic Art Generator (*roguewaverly.github.io/Mazes-Of-Waverly-Place*)