Waverly Roeger

✉ waverlyroeger@gmail.com   **BACKEND SOFTWARE ENGINEER**   in wroeger

📞 (806) 239-6854   📍 New York City area (Stamford, CT)   ⌭ RogueWaverly

LANGUAGES Python, C++, Java, C, PostgreSQL   **TOOLS** Django, Git, Linux, AWS Elastic Beanstalk

Experience

Lead Backend Engineer   SEED-STAGE SOCIAL IMPACT STARTUP   June 2019 — March 2021

- Held primary ownership of 5 major project backends, designing and developing RESTful APIs, designing and modeling databases, collaborating with frontend engineers, and anticipating design needs beyond initial requirements
- Designed and developed the multi-client backend of the checkout flow SDK from scratch to launch, which became the startup's primary product, multiplying transactions handled per day and expanding reach from NYC to international
- Improved code maintainability and durability by developing code standards and best practices including thorough internal and external documentation, reusable code, comprehensive test suites, and up-to-date security schemes
- Implemented unification of the original app and SDK systems by redesigning a cohesive database and migrating data and API functionality in order to merge customer profiles and enable aggregate impact reports
- As partnerships increased, automated monthly invoicing and analytics reporting to reduce manual overhead
- Enabled the marketing team to increase customer engagement by implementing automated transactional emails and custom user segmentation through SendGrid, Klaviyo, and Mailchimp marketing platform integrations
- Researched machine learning algorithm approaches to build a personalized recommendation system
- As early core team member, actively contributed to building the startup's initial structure and culture, including interviewing and onboarding new engineers

Software Developer   LAWRENCE LIVERMORE NATIONAL LABORATORY   July 2017 — May 2019

- Transformed legacy static web pages of the Virtual Test Library by designing a database for assorted experiment data and recreating web pages using Django, identifying and resolving metadata inconsistencies using regular expressions
- Researched approaches to improving a spiking neuron algorithm used to solve a quadratic unconstrained binary optimization graph theory problem run on IBM's TrueNorth neurosynaptic hardware, and presented results

Software Engineer Intern   GARMIN INTERNATIONAL   May 2016 — August 2016

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

Leadership

Facilitator   GIRLS WHO CODE, *Christensen Middle School*   September 2017 — February 2019

- Led a middle school club of 30 students through a project-based curriculum each week, teaching computer science fundamentals and fostering community

President   WOMEN IN COMPUTER SCIENCE, *Arizona State University*   May 2015 — May 2017

- Increased active membership 2x, instituted lasting improvements to organization structure, and organized 50+ professional development, outreach, and social events, including a programming competition with 100+ participants

Education

Bachelor of Science in Computer Science   May 2017

BARRETT, THE HONORS COLLEGE AT ARIZONA STATE UNIVERSITY

- **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*)