

ERIN SONG

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EDUCATION

University of California, Berkeley

Expected Graduation: May 2021

B.A. Computer Science (Data Science Minor, Human Rights Minor)

Relevant Coursework: Algorithms, Artificial Intelligence, Operating Systems, Security, Databases, Data Structures, Computer Architecture, Data Science, Discrete Math, Probability Theory, UX Design, CS Pedagogy, Computational Music

EXPERIENCE

Microsoft | Software Engineering Intern

May 2020 - present

- Full-stack development for Lobe.ai, a no-code tool that allows users to build, train, and visualize deep-learning models.

Cal Blueprint, Technology for Nonprofits | Project Lead, Full-Stack Software Developer

Aug 2018 - present

- Develop pro-bono web and mobile apps using React and Ruby on Rails for nonprofits with student-led project teams.
- Creating student onboarding portal for Unloop, a nonprofit aiming to reduce recidivism rates through educational and professional support programs that prepare formerly incarcerated prisoners for software development careers.

Cisco Systems | Software Engineering Intern

May 2019 - Aug 2019

- Developed web application dashboard (Angular.js, Java) visualizing internal sales data for Customer Experience team.
- Wrote SQL queries on SAP HANA to analyze and visualize product renewal rate data, increasing efficiency by 4 times.

Waterline Data | Software Engineering and UX Design Intern

Jun 2018 - Aug 2018

- Developed back-end framework generating HTTP statuses on data catalog UI and REST API using Java and Postman.
- Designed UI/UX prototypes (Sketch, Illustrator) and conducted user research reports for 5 new product features including data visualization dashboards, GDPR management, data manipulation, and data stewardship reports.

PROJECTS

Unloop Classroom Portal (Ruby on Rails, React) | <https://github.com/calblueprint/unloop>

- Student classroom portal that facilitates communication between instructors and students, allows instructors to assign onboarding paperwork, displays individual student profiles, and consolidates student data onto admin dashboard.
- Additional features allow staff to assign action items, send notifications via email, and grade benchmark assessments.

Encrypted File Sharing System (Golang)

- Client program allowing users to load and store text files, edit file contents, securely share files to other users, and revoke file access privileges to shared users. Security enforced by public key encryption, HMACs, and digital signatures.

BearMaps (Java)

- Online web map application using A* algorithm to find shortest route between two locations, OpenStreetMap API to enable image rastering, SAX parser to render public XML data, and quadrees to implement autocomplete search.

LEADERSHIP

Berkeley ANova (CS for Under-Resourced Schools) | CS Instructor, Education Tools Software Developer

- Mentor low-income middle and high school students in after-school CS program for under-resourced school districts.
- Develop full-stack web application portal for instructors to centralize teaching tasks and reference curriculum content.

Berkeley Society of Women Engineers | Corporate Chair

- Direct career development and recruitment events with tech companies for students to access job opportunities.
- Instruct CS and engineering education workshop programs for female middle school students in Alameda County.

SKILLS

Programming: Python, Java, HTML/CSS, JavaScript, React, Ruby on Rails, C, C++, SQL

Design: UI/UX, Sketch, Figma, Adobe CC (Photoshop, Illustrator, InDesign, XD), User Research