

Bridget Bell

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EDUCATION

University of Southern California, Viterbi School of Engineering

Expected May 2024

Bachelor of Science, Computer Science

GPA & Honors: 3.9, University Merit Scholarship

WORK EXPERIENCE

Intel Corporation

May - August 2023

Software Application Intern

- Led **GitHub Actions** development for inter-team CI/CD modernization project, improving developer efficiency by 60%.
- Developed a **ReactJS** dashboard for tracking production-level data fetched with **SQL**, now referenced daily in team standups.
- Created a **C#** regression testing structure, resulting in over 80% of current unit tests being migrated to the novel system.

Intel Corporation

June - August 2022

Software Engineer Intern

- Designed a fully-functional scalable CI/CD pipeline with **GitHub Actions**, inspiring an inter-team CI/CD modernization project.
- Rallied 20+ new-hires as the lead of the remote intern cohort, planning weekly community events.

ICAROS Lab

Feb - May 2022

Research Assistant

- Implemented an original version of the Multi-dimensional Archive of Phenotypic Elites (MAP-Elites) quality diversity algorithm with **Python**, evolving the different methods of finding optimal solutions within n-dimensional search spaces.

Internet Archive

Mar - Oct 2021

Software Engineer Intern

- Handled JSON files >1 million lines in length, archiving relevant URLs into the Wayback Machine database using **Python**.

LEADERSHIP EXPERIENCE

CSCI 104: Data Structures & Object Oriented Design

Jan 2023 - Present

Head Course Producer

- Create/teach lab materials and hold office hours, helping students debug **C++** assignments and understand difficult concepts.
- Coordinate office hours scheduling, exam proctoring, and homework submissions for 30+ teaching assistants and 300+ students.

Code the Change

Apr 2023 - Present

President

- Conceived a new VP of DEI position and co-founded a Tech4Good consortium in addition to leading member recruitment, organizing club retreat, and maintaining commitments to partner nonprofits, sponsors, and USC Viterbi.
- Spearheaded a 300% increase in volunteering events as VP of Community Outreach in the 2021-2022 school year.

Firefly, LavaLab

Jan - May 2023

Cofounder & Product Manager

- Co-founded a technical feedback SaaS startup, winning LavaLab's first place Judges' Choice Award for best product.
- Established and guided the company's vision and deliverables, developing a robust business model, go-to market strategy, and compelling story, garnering interest from three investors.

PROJECTS

EasyTeamUp

March - May 2022

- Built an app that optimally scheduled social events for users with a DP-algorithm, winning the best app award out of 73 competing teams in the CSCI 310 Software Engineering class, composed of 300+ students.
- Meticulously coded the entire frontend of the app (>60k lines of code) in under one month using **Java**, **XML**, and integrating multiple different **Firestore** APIs.

The Ron Finley Project

Oct 2021 - May 2022

- Implemented two-thirds of pages and associated components for an internal inquiry system using **ReactJS**, **HTML**, and **CSS**.

SKILLS & RELEVANT COURSEWORK

Languages & Frameworks: C++, Java, Python, C#, JavaScript, ReactJS, HTML/CSS, XML, SQL, NodeJS, MySQL

Technologies & Tools: GitHub Actions, Git, PowerShell, Zsh, Android Studio, Visual Studio, Firebase

Relevant Coursework: Data Structures & OOD, Algorithms, AI & ML, Info Retrieval, Computer Systems, Operating Systems