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 - Aug 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** & **Python**, now referenced daily in standups.
- Created a **C#** regression testing structure, resulting in over 80% of current unit tests being migrated to the novel system.

Software Engineer Intern June - Aug 2022
- Designed a fully-functional scalable CI/CD pipeline with **GitHub Actions, C#, PowerShell,** and **Bash**, 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

USC 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.

LavaLab Incubator: Firefly 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 Mar - 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 **Firebase** 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, Bash/Zsh, Android Studio, Visual Studio, Firebase
Relevant Coursework: Data Structures & OOD, Algorithms, AI & ML, Info Retrieval, Computer Systems, Operating Systems