Ashley Bilbrey

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EDUCATION

University of California, Davis   **Davis, CA**
Bachelor of Science - Computer Science - 3.8 GPA   Sep 2020 - Jun 2024

SKILLS

Languages: JavaScript, Node.js, Python, C, C++, Java, HTML/CSS, SQL
Technologies: Flask, x86/ARM Machine Code, MongoDB, PostgreSQL, MySQL
Tools: GNU/Linux, Git, Amazon Web Services, Google Cloud Platform, Burp Suite, Hashcat, Wireshark

EXPERIENCE

UC Davis Center for Mind and Brain   **Davis, CA**
Software Engineer   Jun 2022 - Present
- Created hearing aid for people with hearing loss that isolates audio based on eye gaze by beamforming.
- Constructed AR Experience to display live captions in 3D space using Unity 3D and Microsoft HoloLens.
- Engineered router connecting 3 variations of audio, text, and ML modules with TCP sockets in Python.
- Implemented a 3-step CI/CD pipeline to deploy across different systems using Docker and GitHub actions.

Major League Hacking   **Davis, CA**
Production Engineering Fellow (Meta)   Jun 2022 – Aug 2022
- Completed 12 weeks of a production engineering program with mentorship from Meta engineers.
- Developed and deployed a blog app with 15 teammates using Python, Flask, Jinja, MySQL, and Nginx.
- Automated CI/CD deployment from GitHub using Docker, GitHub Actions, Prometheus, and Grafana.

UC Davis Student Startup Center   **Davis, CA**
Software Engineer & Technology Manager   Nov 2021 - Present
- Built and launched a scavenger hunt web app for 77+ UC Davis students using Node.js and Express.
- Authored a Node.js package for the UC Davis Central Authentication Service for student logins.
- Authored and taught workshops to 1,000+ students on HTML, startups, Unity 3D, and app development.

LEADERSHIP

Cyber Security Club at UC Davis   **Davis, CA**
President   Jun 2022 - Present
- Raised club member count from 4 to 74 after the COVID-19 pandemic by rebuilding an officer team.
- Conducted technical cyber security skill workshops with 500+ attendees on password cracking, binary exploitation, reverse engineering, and open source intelligence.
- Led a team of 28 students in cyber security competitions including the National Cyber League and the National Collegiate Cyber Defense Competition.

PROJECTS

Banshee Bot - Code
- Pioneered a solution to remove 283+ spammers on 120+ Discord servers by creating a bot with Node.js.

Locat - Info - Code
- Developed an AI-powered map of wild cats using HTML/CSS, Node.js, Express, and Google Firestore DB.

Symptom.Space - Info - Code
- Enabled automatic COVID contact tracing for the Davis area through QR code check-in, text alerts, and text-based authentication, with Python, Flask, MongoDB, Google Cloud, and Twilio.

NoScam - Info - Code
- Launched scam education and tracking platform with HTML/CSS, Node.js, Express, and Google Firestore.