Brice Parrott

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About

4th-year computer science major with demonstrated success in building web applications at startups and Fortune 500s. Passionate about creating efficient solutions to complex and ambiguous problems. Thrives in fast-paced environments.

Education

University of Colorado, Boulder — Boulder, Colorado
Bachelor of Science in Computer Science; GPA: 3.56/4.00, Major GPA: 3.7/4.00 — *August 2022 – May 2026*

Experience

Software Engineering Intern — June 2025 – Present
Shift5 — *Washington, D.C*

- Developed and deployed UI bug fixes and usability enhancements across React.js web application, supporting the on-time monthly release of stable product updates
- Collaborated with product managers, field engineers, and QA to identify and resolve front-end issues impacting real-time data visualization for customers monitoring mission-critical fleets
- Optimized data fetching architecture by consolidating API calls into higher-order components, eliminating redundant requests and reducing network calls by over 40%

Software Engineering Intern — June 2024 – December 2024
Lockheed Martin — *Washington, D.C*

- Developed backend and deployed internal website which consolidated multiple messy data sources into one tool to allow users to build custom satellites on user friendly interface ran on Node.js
- Lead backend team of 3 interns in creating REST API to handle request from client to PostgreSQL database using Express framework integrated with a Sequelize layer to simplify queries
- Selected to stay on project and continue to develop stretch goals throughout fall of 2024

Software Engineering Intern — May 2023 – August 2023
Lockheed Martin — *Highlands Ranch, Colorado*

- Developed back end of GUI for an autonomous mission tasking system from the ground up using Django for interface and Flask for testing
- Created parsing algorithm to process logs from tasking software into performance tracking metrics for developer and client demo use
- Designed GUI database using SQLite to decrease average query time by 45%

Projects

Catch Bonded Network Simulation — August 2023 – December 2024

- Explored the characteristics of catch bonded networks, specifically with the application of modeling physical systems of active matter
- Created Python and BASH scripts to efficiently create and run larges batches of simulations on HPC and performed large data analysis on results
- Wrote Matlab script to detect and characterize crack propagation in mentioned networks

High Altitude Payload Avionics — August 2022 – May 2023

- Designed data acquisition and power supply systems for payload which hovered via balloon at 36 kilometers for 20 hours to measure capabilities of future lunar technology
- Wrote and performed test plans for power and data acquisition systems
- Recovered data from balloon-launched payload and analyzed data with MatLab, revealing fault in survivability of DAQ system through acceleration trends

Technical Skills

Languages: Python, JavaScript, C++, Matlab, Scala
Frameworks: Node.js, MS SQL,PostgreSQL, SQLite, Sequelize, Express, Django, Flask, React
Developer Tools: Git, Jira, VS Code, Postman, Docker