Brian Fu

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Education

University of California, Berkeley Berkeley, CA

Bachelor of Science in Electrical Engineering and Computer Sciences (EECS) *Aug 2021 – May 2025*

- GPA: 3.7
- Spring 2023: Tutored 2 sections of 5 students each CS61B(Data Structures and Algorithms) through Berkeley CSM. Gives guidance and practice to students for reviewing material they learned in class.

Experience

Software Engineer Intern May 2024 – August 2024

Veeva Systems *Pleasanton, CA*

- Enhanced logic on a distributed lock to prevent concurrent upgrades in the Veeva Upgrade Framework from multiple JVMs. Refined Spring startup logic using initialization beans and resolved distributed coordination issues with ZooKeeper and Curator, contributing in reduced man hours and prod issues during release.
- Solved miscellaneous defects, prod issues, and dev stories in a SaaS environment, including adding error handling, making UI adjustments, and refactoring code in both backend and frontend sides. Resulted in increased productivity for developers.
- Utilized Java, Git, SQL, JavaScript, backend development, and debugged using IntelliJ Debugger and Chrome Developer Tools.

Software Engineer Intern May 2023 – Dec. 2023

Humana *Louisville, KY*

- Designed and implemented a Mock Object in Java for a paid third-party service called Relay Health for use in load testing. Saves up to $10,000 monthly. Wrote SQL queries for analysis and testing through SQL Server Management Studio to parse and output responses.
- Created a backend Spring application using the Spring Boot Java framework to deploy the Mock Object as a microservice with a REST API endpoint, utilizing the Unirest HTTP client library.
- Utilized Java, Git, SQL, Regex, Spring, and debugged using Eclipse.

Undergraduate Student Researcher Aug. 2021 – May 2023

Radwatch @ UC Berkeley *Berkeley, CA*

- Wrote algorithms in Python to analyze gamma radiation from various fish samples in the Bay Area.
- Conducted data analysis with NumPy and Pandas on radiation levels due to rainfall in the Bay Area. Results displayed on a research poster.
- Researched and built a transimpedance amplifier for a radiation detector with smaller volume.

Projects

Formula 1 Ticket Purchasing Bot (Blog): Built a Python-based bot using Selenium, BeautifulSoup, and Requests to automate the process of checking and securing Formula 1 tickets from a high-demand Chinese platform Jussyun Sports. Implemented logic to bypass basic bot detection (user-agent rotation, retry logic), parse AJAX-loaded content, and automate browser actions including login and form-filling.
Gitlet: Created a basic version control system which mimics basic features of Git in Java. Implemented commands init, add, commit, rm, log, checkout, branch, and merge among other features. Utilized different data structures and algorithms to meet time constraints.

Technical Skills

Languages and Databases: Python, Java, C♯, C, C++, SQL, MongoDB, HTML, RISC-V, JavaScript, React
Frameworks, Libraries & Tools: Spring Boot, Git, GitHub, JBoss, IntelliJ IDEA, Eclipse, Google Cloud Platform, Maven, Gradle, Azure DevOps, Kibana, Apache Curator, Apache Zookeeper, Jira, Bash
Courses / Concepts: Data Structures, Distributed Systems, Operating Systems, System Programming, Object-oriented programming, Database Systems, Quantum Computing, Efficient Algorithms, Computer Architecture, Artificial Intelligence, Machine learning, Computer Security, Data Privacy