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: 3.71
- Programming Coursework: Efficient Algorithms and Intractable Problems, Structure and Interpretation of Computer Programs, Data Structures, Great Ideas of Computer Architecture (Machine Structures), Introduction to Artificial Intelligence, Introduction to Database Systems, Introduction to Machine Learning, Computer Security, Operating Systems and System Programming
- 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.

Skills and Technologies

Python, Java, C♯, C, C++, Git, GitHub, JBoss, IntelliJ IDEA, Eclipse, Spring, Algorithm Design, SQL, HTML, Google Cloud Platform, Maven, Gradle, Azure DevOps, Kibana, Apache Curator, Apache Zookeeper, Agile Software Development, Jira, Bash, RISC-V

Experience

Software Engineer Intern May 2024 – August 2024

Veeva Systems *Pleasanton, CA*

- Implemented a feature to prevent concurrent upgrades to a Vault from multiple JVMs in the Veeva Upgrade Framework by enhancing logic. Refined Spring startup logic with initialization beans and debugged ZooKeeper and Curator related issues. Resulted 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 refracting code in both backend and frontend sides. Resulted in increased productivity for developers.
- Leveraged knowledge in 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.
- Leveraged knowledge in 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

Radiology Report Classifier: Worked on a machine learning model to detect lung cancer in patients. Wrote preprocessing techniques for NLP in Python using nltk and spacy. Used classic machine learning models to capture semantic meaning in text.

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.