

# JEFFREY LIANG

jeffreyliang@berkeley.edu • (480) 798-3662 • www.linkedin.com/in/jeffreypiang

## EDUCATION

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### University of California, Berkeley

August 2020–May 2024

Bachelor's Degree, Computer Science

Berkeley, CA

- **GPA:** 4.0 (out of 4.0)
- **Relevant Coursework:** Computer Programs (A+), Data Structures (A+), Machine Structures (A+), Discrete Math and Probability (A+), Computer Architecture (A+), Computer Security (A+), Operating Systems (A), Compilers (A+), Internet Architecture (A+), Algorithms (A), Computer Vision (A), Database Systems (A), Artificial Intelligence (A+), Machine Learning (A)

## RELEVANT EXPERIENCE

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### Databricks

August 2024–present

Software Engineer

San Francisco, CA

- Improving the reliability and performance of Lakeflow Pipelines and Delta Live Tables as part of the Lakeflow Foundations team
- Languages & Technologies: Scala, TypeScript, SQL, gRPC, Kubernetes, MySQL, Apache Spark, React, GraphQL

### University of California, Berkeley

August 2022–May 2023, August 2023–May 2024

Teaching Assistant

Berkeley, CA

- Taught discussions, held office hours, and developed course content for CS 186: Database Systems (Website)
- Managed logistics, extensions, and student accommodations, creating a safe learning environment for 500 students

### Google

May 2023–August 2023

Software Engineering Intern

Mountain View, CA

- Designed and implemented a service to generate Performance Max ad previews for all of Google's advertising channels, including YouTube, Display, Search, Discover, Gmail, and Maps, improving customer experience in the Google Ads UI and enabling partner teams to support Performance Max previews in their products
- Developed a comprehensive validation plan to identify and address edge cases, ensuring a successful launch
- Languages & Technologies: Java, Dart, gRPC, AngularDart

### Google

May 2022–August 2022

Software Engineering Intern

New York, NY

- Reduced technical debt by migrating a service that monitors data in Google Maps to modern infrastructure
- Implemented two-party control in a service that registers Maps data writers by defining new APIs and implementing new RPC handlers, bringing the service up to security standards and improving production stability
- Languages & Technologies: C++, Python, TypeScript, SQL, gRPC, Spanner, Angular

## SELECTED PROJECTS

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### shopspero.org (Website) (Code)

- Streamlined order processing and marketing for Spero, a student-run Christian apparel company, by designing and building an online store and showcase using TypeScript, React, Next.js, Firebase, and Stripe

### Pintos (Code available upon request)

- Co-designed, implemented, and tested significant parts of a fully-functional x86 operating system in C and assembly, including multithreading, loading and running user programs, and a file system

### Gitlet (Code available upon request)

- A command-line version control system, implemented in Java, with features similar to Git
- Designed, implemented, and tested staging, committing, logging, branching, merging, and remotes

## SKILLS

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### Languages

Java, Python, Scala, Go, C, C++, SQL, JavaScript, TypeScript, Dart, HTML, CSS

### Technologies

React, Angular, Protocol Buffers, gRPC, Docker, Kubernetes, Apache Spark, Linux, PyTorch