

Liam Adams

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EDUCATION

University of California, Berkeley

Aug. 2019 – May 2023

Bachelor of Science in Computer Science

Berkeley, CA

- **Relevant Coursework:** Operating Systems, Algorithms, Distributed Systems, Artificial Intelligence
- **GPA:** 3.90/4.00
- **Activities:** CS Mentors (Lead Mentor), CalHacks Organizer, ACM Student Chapter

EXPERIENCE

Software Engineering Intern

Jun. 2022 – Aug. 2022

Google

Mountain View, CA

- Developed and optimized backend services for the Google Cloud Platform, reducing response times by **25%**.
- Implemented REST APIs for efficient data retrieval, supporting **1M+ daily requests**.
- Worked with a team to enhance microservices architecture, improving scalability and reliability.
- Collaborated with cross-functional teams to ensure integration of security best practices.

Teaching Assistant

Jan. 2022 – May 2022

UC Berkeley Computer Science Department

Berkeley, CA

- Assisted in teaching the Distributed Systems course, guiding **200+ students** through labs and projects.
- Conducted weekly office hours to address conceptual questions and debug programming assignments.
- Graded assignments and provided detailed feedback to improve student learning outcomes.

PROJECTS

RideShare Optimization Tool

Python, Flask, PostgreSQL

Mar. 2023 – Apr. 2023

- Developed an optimization tool for ride-sharing services to improve route efficiency and reduce costs.
- Integrated real-time traffic data to dynamically adjust routes, saving **15% in travel time**.
- Designed a PostgreSQL database to store user and trip data, ensuring fast and reliable queries.
- Deployed the tool on AWS, handling **10,000+ daily active users**.

Distributed Key-Value Store

Go, gRPC

Jan. 2023 – Feb. 2023

- Built a fault-tolerant distributed key-value store using consensus algorithms like Raft.
- Implemented gRPC for efficient inter-node communication, achieving high throughput and low latency.
- Simulated network failures to validate the system's resilience and data consistency.
- Achieved **99.99% availability** during extensive testing.

AI Chatbot for Education

Python, TensorFlow, Flask

Oct. 2022 – Dec. 2022

- Developed a chatbot to assist students with course-related queries using natural language processing.
- Trained models using TensorFlow on **100,000+ labeled queries**, achieving **93% accuracy**.
- Integrated the chatbot into a Flask web application, providing real-time responses.
- Deployed on Google Cloud Platform, handling **5,000+ interactions per day**.

TECHNICAL SKILLS

Languages: Python, Go, Java, SQL, JavaScript

Frameworks: Flask, TensorFlow, gRPC

Tools: PostgreSQL, Docker, Kubernetes, AWS

Technologies: Distributed Systems, Machine Learning, Cloud Computing, Backend Development