

## CONTACT INFORMATION

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Location: Mountain View, CA

## EDUCATION

<b>Bachelor of Science</b> in Computer Science	Expected May 2026
Stanford University	Stanford, CA
GPA: 3.9/4.0	

## PROFESSIONAL EXPERIENCE

<b>Software Engineering Intern</b>	Summer 2025
Tech Innovators Inc.	Seattle, WA

- Developed and optimized core components for a **Distributed Systems** platform using **Java** and **Python**, enhancing data processing throughput by **25%** for **large-scale applications**.
- Implemented robust **Data Storage** solutions and **Networking** protocols over **TCP/IP** in a **Unix/Linux environment**, ensuring **scalability** and **security** for critical user data.
- Collaborated closely with a cross-functional team, contributing to **Software Design**, **Software Testing**, and **Software Deployment** cycles, demonstrating strong **problem-solving** and **team-work** skills.

<b>Research Assistant (AI/ML Lab)</b>	Fall 2024 – Spring 2025
Stanford University	Stanford, CA

- Conducted **research** and developed a novel algorithm for **Information Retrieval** using **Machine Learning (ML)** and **Natural Language Processing (NLP)** techniques in **Python**.
- Optimized data access and processing for large datasets, achieving a **15%** improvement in query response time and contributing to the lab's ongoing **Artificial Intelligence (AI)** initiatives.
- Maintained and enhanced experimental code, demonstrating strong understanding of **Computer Science** principles and contributing to the **technology development** of new **search technologies**.

## PROJECTS

<b>Distributed File System (DFS) with Replication</b>	Spring 2024
GitHub Repository	

- Engineered a fault-tolerant **Distributed File System** in **C++** on a **Linux** cluster, implementing data replication for **100%** availability and consistent data integrity across nodes.
- Designed and implemented custom **TCP/IP networking** protocols and **Data Storage** mechanisms, showcasing expertise in **Large-scale System Design** and ensuring robust **security** features.
- Achieved high **scalability** for data access and storage, reducing read/write latency by **30%** through optimized data distribution and concurrent access patterns for **large-scale systems**.

<b>AI-Powered Code Review Assistant</b>	Fall 2023
GitHub Repository	

- Developed an **Artificial Intelligence (AI)**-driven tool using **Python** and **Machine Learning (ML)** to automate code review, leveraging **Natural Language Processing (NLP)** for semantic analysis.
- Designed intuitive **UI Design** for user interaction, allowing developers to receive real-time feedback and improving code quality by identifying **85%** of common code smells.
- Implemented comprehensive **Software Testing** and continuous integration, streamlining the **Software Development** lifecycle and enhancing overall team **product improvement** and **adaptability**.

#### Mobile-First E-commerce Platform

Summer 2023

GitHub Repository

- Led the **Full-stack Development** of a responsive e-commerce platform, integrating **Mobile Development** features and a dynamic **UI Design** to support **10,000+** concurrent users.
- Developed robust backend services using **Java** and optimized **web search** functionality for efficient **Information Access** and **Data Access**, increasing user engagement by **15%**.
- Managed **Information Management** and **storage solutions**, contributing to the full **product development** cycle from conception to **software deployment** and ongoing **software maintenance**.

#### TECHNICAL SKILLS

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**Programming Languages:** C, C++, Java, Python

**Frameworks & Libraries:** TensorFlow, PyTorch, scikit-learn, React Native, Spring Boot, Flask, Node.js

**Tools & Technologies:** Git, Docker, Kubernetes, Jenkins, JIRA, Kafka, gRPC, **Unix/Linux environments**

**Databases:** MySQL, PostgreSQL, MongoDB, Redis, Cassandra

**Cloud Platforms:** AWS, Google Cloud Platform (GCP), Azure

**Core Concepts:** Distributed Systems, Machine Learning (ML), Information Retrieval, TCP/IP, Computer Science, Computer Engineering, Scalability, Large-scale Systems, Web Search, Distributed Computing, Large-scale System Design, Networking, Data Storage, Security, Artificial Intelligence (AI), Natural Language Processing (NLP), UI Design, Mobile Development, Full-stack Development, Software Design, Software Testing, Software Deployment, Software Maintenance, Storage Solutions, Large-scale Applications, Platform Development, Software Applications Development, Data Compression, Search Technologies, Data Access, Information Access, User Interaction, Information Management, Product Development, Collaboration, Problem-solving, Versatility, Leadership, Enthusiasm, Adaptability, Innovation, Creativity / Conception, Research, Contribution