

# MEHUL JAISWAL

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## EDUCATION

**University of California, Berkeley, BA in Computer Science**

GPA: 3.7 / 4.0

Dec 2025

- **Coursework:** Machine Learning (CS189), Database Systems (CS186), LLMs Agents (CS194-196), Efficient Algorithms (CS170), Artificial Intelligence (CS188), Computer Vision (CS180), Deep Neural Networks (CS 182), Data Structures, Discrete Maths, Computer Architecture

## SKILLS

Languages      Java, Python, C++, JavaScript, HTML/CSS, React, PostgreSQL, MongoDB, Springboot, Kubernetes, RedisDB  
Tools/Concepts   ML, AI, Bedrock Agent, GraphQL, Restful-APIs, Data Structures, Algorithms, Git, AWS, Docker, Microservices  
Libraries        Pandas, NumPy, Matplotlib, Tensorflow, NLTK, Pytorch  
Certifications   AWS Certified Cloud Practitioner CLF-C02, Udemy | Complete ML Course, Udemy

## EXPERIENCE

**Amazon Web Services, Software Development Engineer Intern** | Seattle, WA

May 2025 - Aug 2025

- Led development of GenAI self-service solution for Amazon's internal ticketing platform (20M+ monthly tickets), reducing routine ticket creation by 15% through AI-powered pre-creation analysis and resolution support.
- Architected GraphQL integration with Amazon Bedrock agent enabling real-time ticket analysis with 70% user satisfaction.
- Implemented conversational AI interface allowing context-aware follow-up questions, improving resolution accuracy.
- Developed AI-powered template autofill system that transforms user problem statements into structured ticket details with 95% accuracy.

**UC Berkeley, Undergraduate Research Assistant Under Prof. Fedyk** | Berkeley, CA

Jan 2025 - May 2025

- Fine-tuned domain-specific LLMs for finance data, powering econometric models on AI adoption & firm productivity.
- Built Spark ETL workflows to process 40 million+ data points, cutting data pipeline runtime by 30%.

**Harness Inc, Software Engineering Intern** | Mountain View, CA (via Coast Personnel Services)

June 2024 - Aug 2024

- Architected a highly scalable dynamic Envoy gateway system that enabled real-time cluster additions and route updates, boosting system agility by 80% and improving user-facing application reliability by 25%.
- Automated cluster scaling with Terraform & GCP, decreasing manual intervention by 70% and boosting scalability by 15%.
- Integrated webhook-triggered configuration updates with zero downtime and enhancing system responsiveness by 20%.
- Optimized server communication, reducing configuration load times by 50% and enhancing service response times by 20%.

**MSTRC Center, De Anza College, Senior Tutor & CS Teaching Assistant** | Cupertino, CA

April 2022 - July 2023

- Tutored 200+ students in algorithms, data structures, and debugging techniques, improving academic performance.
- Held weekly office hours for 30+ students for Prof. Felix Amoruwa and assisted in making exam questions.

**Blue-I-Tek, Software Engineering Intern** | Fairfax, VA

June 2022 - September 2022

- Enhanced product stability by 15% by leading a cross-functional team in debugging and verifying software, resulting in improved system reliability and performance.
- Accelerated data processing by 75% by integrating Snowflake's REST API with Python scripts, reducing generation time.

## PROJECTS

**AI CRM Fusion - NxBot** | *Skills: AI/ML, Python, RAG, Vector Embedding, React.js*

- Built full-stack SaaS platform with 90% automated lead capture using React.js, processing 500+ pages per website scrape.
- Implemented dynamic RAG system using keyword matching and relevance scoring achieving 90% query satisfaction.
- Developed multi-tier AI conversation engine with GPT-4/3.5-turbo supporting dynamic temperature control & token limit.
- Real-time lead scoring ML algorithm analyzing 15+ behavioral metrics with 85% conversion probability prediction accuracy.
- Developed AI-powered email automation system generating personalized follow-up campaigns achieving 40% open rates.

**Portfolio Stock Analyzer and Predictor** | *Skills: Next.js, TypeScript, React, AI/ML, Yahoo Finance*

- Built full-stack real-time portfolio tracker supporting multi-person investment management portal across stock market.
- Implemented AI prediction engine with ML models (ARIMA, Monte Carlo, GBM) and 3 news APIs for sentiment analysis, achieving comprehensive risk assessment capabilities.
- Developed data management system with protection mechanisms and concurrency control, reducing inconsistency by 99%.

## LEADERSHIP EXPERIENCE

**ACM De Anza Club Chapter** - *Co-founder and Vice President*

- Organized 7+ industry events and technical workshops, including the first campus-wide hackathon.

**Berkeley EECS Department** - *Teaching/Tutoring*

- Course Staff(Academic Intern) for CS61A: Assisting 40+ students in Labs and OH
- CSM Senior Mentor: Leading weekly mentoring sessions to foster growth and interactive learning.

## ACHIEVEMENTS & AWARDS

**Awards** - VIDA & DASG Student Leadership Award, DASG Scholarship, Community Engagement Scholar, Dean's List.