

Abdarrahman Ayyaz

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Education

San Francisco State University

San Francisco, CA

B.S. in Computer Science | GPA: 3.7/4.0

Honors: Dean's List, Genentech-PINC Scholarship, Data Science & Machine Learning Certificate

Coursework: Data Structures & Algorithms, Machine Learning, Web Development, Software Engineering, AI

Technical Skills

AI Tools: Claude, Claude Code, Cursor, Perplexity, OpenAI, OCI Generative AI, MCP Tools

AI/ML: RAG, Prompt Engineering, Agentic Workflows, Model Fine-tuning, CNN, U-Net, Sentiment Analysis

Languages: Python, Java, TypeScript, JavaScript, C++, SQL

Frameworks/Tools: React, Node.js, Express.js, LangChain, TensorFlow, Keras, PyTorch, Pandas

Databases: PostgreSQL, MySQL, Firebase, Vector Databases, Drizzle ORM

Cloud/DevOps: AWS, GCP, OCI, Docker, CI/CD, Git, GitHub, Linux

Work Experience

Cloud Support Engineer

June 2024 – Present

Oracle (Oracle Cloud Infrastructure - Developer Tools)

Redwood City, CA

- Designed RAG-based AI agent using OCI Generative AI models and vector embeddings to automate technical troubleshooting for OIC Gen 2 to Gen 3 migration, reducing resolution time for internal teams
- Tested and evaluated production AI agents for clients to use for issues with Oracle products, implementing RAG to enhance response accuracy by 35% and proactively prevent customer issues across service categories
- Debugged complex JavaScript, Java, and REST API issues for Fortune 500 enterprise clients, collaborating with cross-functional teams to identify root causes
- Received perfect CSAT scores from enterprise clients while creating documentation and debugging tools, streamlining technical triage processes and reducing average case resolution time

Software Engineering Intern

June 2023 – September 2023

Kay Systems

- Developed full-stack web applications using MERN stack (MongoDB, Express.js, React.js, Node.js) and Java, focusing on feature design, implementation, and optimization for production
- Collaborated with 6-person international Agile team in daily stand-ups, sprint planning, and retrospectives to deliver scalable solutions on time
- Implemented responsive UI components and RESTful APIs, conducting code reviews and utilizing Git for version control to maintain high quality standards

Projects

Founder & Lead Developer - **Triage AI** | *React, TypeScript, PostgreSQL, Perplexity API*

Feb 2025

- Built and deployed full-stack AI application with Perplexity's sonar-pro LLM and PostgreSQL conversation system, serving 1000+ users with 40% improved response relevance through semantic context tracking
- Implemented client-side sentiment analysis with 95% accuracy replacing AWS Comprehend, achieving \$50/month cost savings and 200ms latency reduction
- Optimized React performance through memoization and TanStack Query, reducing re-renders by 60% and enabling real-time chat
- Implemented rate limiting system (50 messages/user/day) with Firebase Authentication and JWT validation middleware

ML for Medical Imaging - **Tumor Segmentation** | *Python, TensorFlow, CNN, U-Net*

Jul 2024

- Developed U-Net architecture with CNN for automated brain tumor segmentation from MRI scans as part of SFSU-Genentech partnership, achieving 97% Dice coefficient through hyperparameter tuning and regularization
- Presented research on brain tumor segmentation using BraTS dataset to hundreds of industry professionals, showcasing application of multiple MRI modalities (T1, T1CE, T2, FLAIR) in medical imaging
- Conducted experiments comparing single and multi-modality MRI approaches using Dice and Jaccard metrics to guide future research in medical image analysis with potential clinical applications
- Employed data preprocessing including normalization and segmentation mask creation, addressing overfitting through data augmentation, dropout layers, and regularization techniques

Leadership & Volunteer Experience

Corporate Lounge Host

2024

OPEN Silicon Valley

San Francisco Bay Area

- Managed team of 10 staff members at OPEN Silicon Valley tech conference, coordinating operations for 500+ technology professionals including guest registration, VIP relations, and technical troubleshooting throughout multi-day event