

Parwiz Khan

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Education

University of California, San Diego

B.S Computer Science

Expected Dec. 2026

- **Relevant Coursework:** Data Structures & Algorithms, Machine Learning, Operating Systems, Computer Networks, Advanced Mathematics (Linear Algebra, Differential Equations, Probabilities)

Technical Skills

Languages: Python • C++ • C • Java • JavaScript • Swift

Frameworks/Tools: Flask • React • Next.js • Ansible • Docker • Git • CI/CD

Cloud & Databases: AWS (EC2, S3) • Redis • Supabase • Firebase • RESTful APIs

Machine Learning: OpenCV • Scikit-learn • TensorFlow • Keras

Testing: PyTest • JUnit

Experience

Juniper Networks, Sunnyvale, CA

Software Engineer Intern - Network Automation

June 2025 – Present

- Built scalable automation tools in collaboration with the support team to reproduce real-time network issues in a controlled environment, improving incident response by 60%.
- Built network simulations to mimic device states and failure scenarios, enabling faster debugging without impacting production.
- Collaborated with support and engineering teams to improve internal tooling and CI workflows for faster issue resolution.

Tramona, Remote

Software Engineer Intern

December 2024 – March 2025

- Built a real-time customer support chat system with TypeScript and Next.js, enabling direct communication between customers and admins.
- Worked with frontend and backend teams to integrate Redis caching, reducing DB load by 40%.
- Implemented CI/CD pipelines on AWS, reducing deployment time from 1 hour to 15 minutes.

G&K Petroleum, Moraga, CA

Software Engineer Intern

January 2024 – June 2024

- Developed a custom POS system handling 5K+ transactions/day, reducing processing time by 40% and improving customer satisfaction.
- Led a team of 4 network engineering interns to implement a network security upgrade, including firewall implementation, configuration, and authored troubleshooting guides now referenced by 7 technicians.

Aethon, Concord, CA

Founder & Lead Developer (Independent Projects)

February 2023 – January 2024

- Developed backend services using Python, Java, C++, and C, reducing data processing time by 70%.
- Debugged and optimized client websites, improving load times by an average of 40% through code refactoring and performance optimization.

Projects

Zaruram: Smart Business Assistant

AWS S3, OAuth, TypeScript, Supabase

- Built a full-stack AI SaaS platform with TypeScript, Supabase, and AWS S3, serving 1K+ users and handling 10K+ files with scalable cloud storage.
- Delivered 99.9% auth uptime via Google OAuth + Redis session cache and reduced support tickets 25% with a user-facing runbook.

MedVision: Smart Medical Image Classifier

Python, TensorFlow, Keras, OpenCV, Flask, React, Firebase

- Achieved 92% F1 on pneumonia X-ray detection using TensorFlow with CV-based hyperparameter tuning and data augmentation.
- Deployed a full-stack web app (Flask + React) for real-time medical image uploads and AI-based classification.

Wireless Network Anomaly Detection System

Python, Tensorflow, Wireshark, Docker

- Built a real-time anomaly detection system on 5GB+ of network logs, achieving 93% detection accuracy with hybrid ML models.
- Automated pipelines for ingestion, preprocessing, and inference, reducing manual effort by 80%, and deployed a Flask/Streamlit dashboard for real-time monitoring.

ChatCore: Custom Web Serve

C, TCP/IP, Sockets

- Developed a high-performance web server in C with custom TCP/IP sockets and persistent storage optimized for concurrent requests.
- Ensured low-latency stability under multi-client load through robust memory management and error handling.