

Parwiz Khan

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Education

University of California, San Diego (UCSD)

Bachelor of Science in Computer Science

Expected June 2026

- **Relevant Coursework:** Data Structures & Algorithms, Machine Learning, Operating Systems, Computer Networks

Technical Skills

Languages: Python, C++, Java, C, JavaScript, Swift, TypeScript, Shell Scripting

Technologies & Tools: AWS, GCP, Docker, Kubernetes, Redis, Supabase, React, Node.js, Firebase, TensorFlow, PyTorch, Scikit-learn, OpenCV

Databases: PostgreSQL, MongoDB, Redis

Development & Debugging: Git, GitHub, Valgrind, GDB

Other Skills: Machine Learning, Deep Learning, Computer Vision, Data Preprocessing, Algorithms, Distributed Systems, Cloud Computing, API Design, TCP/IP Networking (DNS, DHCP, NTP, SMTP, SNMP)

Experience

Tramona, Remote *Software Engineer Intern*

December 2024 – March 2025

- Developed and optimized backend services using Go and Python, improving API response time by 30%.
- Built microservices using TypeScript and Next.js, reducing API response time by 40%.
- Integrated Redis caching, reducing database load by 40% and enhancing service scalability.
- Implemented CI/CD pipelines on AWS, reducing deployment time from 1 hour to 15 minutes.

Aethon, Concord, CA *Founder*

Feb. 2023 – Present

- Developed backend services using Python, Java, C++, and C, reducing data processing time by 70%.
- Built a chatbot platform integrating LLMs for intelligent responses with custom moderation logic.
- Built iOS applications for 3 clients using Swift, delivering responsive and user-friendly designs.
- Implemented SEO strategies, improving organic traffic for client websites by 50%.

G&K Petroleum, Moraga, CA *Software Engineer Intern*

January 2024 – June 2024

- Developed a POS system handling 5K+ transactions/month, reducing processing time by 30% and improving multi-user concurrency.
- Optimized backend system reliability with Linux server solutions, achieving 99.9% uptime.
- Upgraded network security with firewall configurations, enhancing system resilience.

Projects

MedVision: AI-Powered Medical Image Classifier

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

- Built a deep learning model to classify medical images (e.g., pneumonia detection from X-rays).
- Applied OpenCV-based preprocessing and data augmentation to improve accuracy.
- Developed a full-stack web app with Flask (backend) and React (frontend), enabling real-time image uploads and AI-based classification.

Zaruram.com: AI-Assisted Business Management SaaS

OAuth, JWT, TypeScript, Supabase, AWS S3

- Developed an AI-assisted business management SaaS platform, integrating Supabase for authentication and database management, with OAuth and JWT for secure user access.
- Implemented automated document handling and analytics, leveraging TypeScript and AI-powered insights to streamline business operations and optimized cloud storage and data retrieval, utilizing AWS S3 for scalable file management and enhancing system efficiency.

Zmaka: Weather Prediction App

Python, React, TensorFlow, Django, Firebase

- Developed an AI-driven weather prediction app using TensorFlow and OpenWeather API.
- Improved forecast accuracy by 15% with machine learning models.

CyberSentinel: Intrusion Detection System

Python, Scapy, Wireshark, Scikit-learn, Linux

- Created a real-time intrusion detection system (IDS) for network security.
- Applied deep packet inspection and ML-based anomaly detection.
- Implemented automated security alerts via email and Slack.

ChatCore: Custom Web Server

C, TCP/IP

- Developed a web server in C, implementing custom TCP/IP socket programming for real-time messaging.
- Optimized file input & output for sub millisecond read/write operations.