Parwiz Khan

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Education

University Of California, San Diego, La Jolla, CA

Bachelor of Science in Computer Science Expected June 2026
- **Relevant Coursework:** Data Structures and Algorithms (Java and C++), Computer Organization and Systems Programming, Discrete Mathematics, Programming Concepts and Methodologies (C++), Linear Algebra, Introduction to Probability, Differential Equations

Experience

Aethon, Concord, CA

Founder Lead Developer 2023 – Present
- Developed custom Python scripts to automate client website updates and data migration, reducing manual processing time by 70% for over 20 businesses.
- Provided customized IT solutions, including network troubleshooting, software recommendations, and technical support, achieving a 99% client satisfaction rate.
- Debugged and optimized client websites, improving load times by an average of 40% through code refactoring and performance optimization.
- Implemented SEO strategies for 50+ client websites, resulting in an average 50% increase in organic traffic and improved search engine rankings.

G&K Petroleum, Moraga, CA

IT Helpdesk Technician 2022 – 2023
- Developed and implemented a custom Point of Sale (POS) system using JavaScript, reducing transaction processing time by 30% and improving customer satisfaction.
- Designed and deployed a company website, enhancing online presence and facilitating customer engagement.
- Engineered and executed a comprehensive network security upgrade, including firewall implementation and configuration.
- Optimized network infrastructure, resolving connectivity issues and ensuring 99.9% uptime.

Projects

Poisha – Intelligent Learning Application *JS, React, CSS, HTML, Firebase*
- Engineered a full-stack web application using React for the frontend and Firebase for backend services to create an adaptive flashcard generation app.
- Utilized Firebase Realtime Database to store and manage user data, implemented user authentication and privacy features, ensuring secure access to personalized content.
- Designed responsive front-end interface with modular React component architecture

EcoLar – Green Transportation Planner *React Native, Node.js, MongoDB, Google Maps API*
- Implemented a carbon footprint calculation algorithm comparing multiple transportation methods such as walking, cycling, public transport, and driving.
- Designed a gamification system using MongoDB to track user achievements and encourage eco-friendly transportation choices.
- Utilized REST APIs to fetch real-time public transportation data and traffic information.

Zmaka – Weather Prediction Application *Python, React, Django, Gemini AI, TensorFlow, scikit-learn*
- Led the development lifecycle from concept to deployment and created an innovative app to assist farmers in crop selection based on seasonal weather prediction using Open Weather API.
- Developed machine learning models using TensorFlow to analyze agricultural data, enhancing crop yield prediction accuracy.
- Created responsive web interface with React.js, visualizing weather patterns and crop performance metrics.

ChatCore – Custom Web Server
- Developed a lightweight web server from scratch in C, implementing custom TCP/IP socket programming for real-time messaging and user connections
- Implemented persistent storage system with optimized file I/O, achieving sub-millisecond read/write operations for chat history and message data
- Built robust error handling and memory management to ensure server stability and performance under concurrent user requests

Technical Skills

Languages: C, Java, C++, ARM Assembly, Python, HTML, JavaScript,ReactJS, CSS
Technologies: AWS, Valgrind, GDB, Android APK Testing & Debugging, Git/GitHub, Linux/Unix, Google Cloud Platform