

Qasim Hussain

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EDUCATION

California State University, Fullerton | Bachelor of Science in Computer Science

Fullerton, CA | June 2025

- **Cumulative GPA:** 3.8/4.0
- **Honors/Awards:** Dean's List
- **Affiliations:** Association for Computing Machinery (ACM) - CSUF Chapter, IEEE Computer Society - CSUF Chapter, CSUF Coding Club, CSUF Robotics Club, CSUF Game Development Society.
- **Relevant Coursework:** Data Structures and Algorithms, Artificial Intelligence, Operating Systems, Software Engineering, Computer Security, Machine Structures, Discrete Mathematics, Probability Theory, Database Management Systems, Computer Networks, Web Development, Object-Oriented Programming, Algorithms and Complexity, Mobile + Web App Development, Computer Graphics.

Fullerton College | Six Associate Degrees Total

Fullerton, CA | June 2023

- **Cumulative GPA:** 3.8/4.0
- **Degrees Earned:** A.S. Computer Science, A.S. Mathematics, A.S.T. Physics, A.A. IDS Science & Mathematics, A.A. IDS Social Sciences, A.A. IDS Arts & Human Expression
- **Affiliations:** President of MSA, FCC Computer Science Club, FCC Tech Innovators Club, FCC Physics and Data Structures Tutor

WORK EXPERIENCE

Palo Alto Networks | Software Engineer Intern

Santa Clara, CA | June 2024 - Aug 2024

- Delivered comprehensive Cloud Security Services, contributing to project success over a 12-week internship.
- Enhanced system scalability, accommodating a 13% increase in user traffic and contributing to the overall growth and reliability of the platform.
- Improved user engagement metrics by 15.4%, positively impacting customer satisfaction and retention.
- Initiated a knowledge-sharing session within the team, reducing bug resolution time by about 25% and fostering a more collaborative and efficient development process.

Baskin Robbins | General Manager

Buena Park, CA | Jan 2019 - Present

- Promoted from crew member to manager, showcasing outstanding dedication, leadership, and commitment of service for *over 5 years*.
- Specialized in crafting custom cake orders, ensuring customer satisfaction with special requests, and *training* new crew members.
- Participated in corporate meetings, providing valuable insights that resulted in annual sales *increases averaging 11.7%*.

Bio-Tech Career Pathway | Bio-Medical Intern

Irvine, CA | Sep 2020 - Nov 2021

- Participated in fall internship program focused on medical innovation, research, and entrepreneurship.
- Worked alongside prestigious institutions like UCI School of Medicine, CHOC Children's Hospital, and University Lab Partners.
- Collaborated with teams that secured \$50,000 in funding for a medical device prototype.

PROJECTS

VitaMatch | HTML/CSS, JavaScript, React, MySQL

- Engineered a sophisticated web app addressing the challenge of personalized vitamin recommendations from extensive health data.
- Implemented advanced algorithms for dynamic user-driven content.
- Designed an intuitive interface and leveraged MySQL for backend processing, creating a seamless user experience.

Bayesian Pacman AI | Python

- Integrated Pacman Minimax, Alpha-Beta Pruning, and Expectimax with dynamic state evaluation for strategic play against probabilistic agents.
- Developed AI agent using Bayesian Networks and Particle Filtering for enhanced, efficient ghost tracking in uncertain environments.
- Optimized agent interface with Variable Elimination and Approximate Inference algorithms for improved predictive decision-making.

Build Your Own World | Java

- Developed a comprehensive 2D world generator in Java, featuring dynamic creation of rooms, hallways, and interactive environments.
- Designed user interface complete with a menu screen and heads-up display, providing detailed information about in-game elements.
- Implemented deterministic interactive system allowing user-controlled avatars to interact within the world, with save and load functionality.

Kachow | C, Python

- Implemented and optimized 2D convolutions in C, employing SIMD operations and OpenMP for enhanced parallel processing efficiency.
- Established Open MPI coordinator for memory management, leveraging Python for debugging and custom test case generation.

SKILLS AND ACTIVITIES

Spoken Languages: English (Native) · Arabic (Proficient) · Urdu (Fluent) · Hindi (Fluent) · Punjabi (Basic) · Spanish (Proficient) · Korean (Basic)

Programming Languages: Python · Java · C · C++ · TensorFlow · MATLAB · Go · HTML/CSS · React · SQL · JavaScript · Swift · R

Tools and Frameworks: PyTorch · Git · Jira · Cuda · NumPy · React.js · Bash · Figma · REST · Agile · AWS Lambda · MongoDB · CI/CD

Interests: Playing JUCO Basketball · Cooking · Stocks/Investments · Making Efficient Code! · Music · Cars · Podcasts · Hiking · Trading · Cloud Computing · AI in SW · Blockchain in SW · Internet of Things in SW · Quantum Computing · VR and AR · Software Computing · Ethics in Tech