

# KEEGAN VOGAN

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## EDUCATION

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**Bachelor of Science, Computer Engineering**, University of California, Santa Cruz

## SKILLS

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**Technical Skills**      C, C++, Python, Shell Scripts, Linux, Docker, Git, Verilog, React, Tensorflow  
**Soft Skills**            Effective Communicator, Self-Motivated, Team-Oriented, Resilient, Understanding

## RELEVANT EXPERIENCE

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### Software Engineering

**AI Game Research** February 2025 - March 2025

- Developed a 3D sandbox first-person aim-training game with a team of 4 UC Santa Cruz students within a month-long time constraint, which researched potential use cases for machine learning in video games.
- Using a Perceptron learning model with player metrics updated on a per-frame basis, adjustments to difficulty were made in real-time allowing for tailored experiences to one's individual skill level with up to 90% accuracy.

**Web App Capstone Project** June 2024 - July 2024

- Developed a Project Management Application providing individuals and teams with a modern and intuitive interface for collaboration; used Agile methodology to create an MVP within a two-month timebox.
- Created a responsive front-end with React and CSS frameworks, improving the UI experience on desktop and mobile devices, leading to increases in 20% for session length and a 5% sign-up conversion rate.
- Designed back-end with a RESTful API utilizing MongoDB Atlas and Express.js for secure and efficient data query operations. Used AWS cloud services and GitHub Actions for the CI / CD deployment pipeline.

### Networking

**Network Analysis Project** October 2024 - December 2024

- Implemented Software-Defined Networking in an academic project, using SDN controllers and firewall rules on Mininet virtual networks. Used Shell Scripting for network setup and automation.
- Analyzed local network interactions across OSI layers. Examined the advantages and disadvantages of different error control methods, routing algorithms, and congestion control procedures.
- Used Cisco labs to create static and dynamic enterprise LAN / VLAN network simulations, using switches and DHCP servers.

## PRIOR WORK EXPERIENCE

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**TechKnowHow Robotics & Coding Camps**, Lead Instructor June 2023 - August 2023

**UC Santa Cruz Fleet Services**, Student Auto Attendant April 2021 - January 2023

**Sprouts Farmers Market**, Produce Clerk April 2020 - February 2021

**Delta Bowl**, Customer Service August 2018 - March 2020

## EXTRA-CURRICULAR ACTIVITIES

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- **Participant** in 2023 and 2024 CruzHacks Hackathon