

Christopher Schrader

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EDUCATION

University of California, San Diego

Bachelor of Science in Computer Science (Grade: 3.94)

Sep. 2023 – June 2025

San Diego, CA

Saddleback College

Associate's in Computer Science (Grade: 3.9)

Aug. 2020 – May 2023

Mission Viejo, CA

TECHNICAL SKILLS

Relevant Coursework: Software Engineering, Recommender Systems, Machine Learning, Natural Language Processing, Operating Systems, Computer Graphics, Design and Analysis of Algorithms

Languages & Tools: JavaScript, Python, C++, Java, Go, SQL, Node.js, Django, Git, Docker, MongoDB, Qt, GitHub Actions

PROJECTS

Developer Journal (GitHub) | *JavaScript, HTML/CSS, GitHub Actions, OpenAI API*

- Led an 11-person Agile team at UCSD to deliver an offline-capable journaling app with service worker caching
- Integrated OpenAI API to generate context-aware AI responses from user journal entries
- Established CI/CD pipelines using GitHub Actions to ensure reliable deployment and maintain code quality

Video Hosting Server | *Go, gRPC, SQLite, Consistent Hashing*

- Built a backend video server in Go with support for file uploads, chunked streaming, and domain-based routing using HTTP headers
- Implemented distributed gRPC storage with consistent hashing to deterministically route video files across multiple storage nodes

NLP Summarization System | *Python, PyTorch, Hugging Face, LoRA, Google Cloud, Django*

- Fine-tuned LLaMA-3.2 model using LoRA for high-quality research paper summarization, achieving improved ROUGE/METEOR validation scores
- Deployed a real-time summarization web demo enabling concise insights from lengthy research articles

Minecraft Server Platform | *Java, Spigot API, VPS Hosting, MySQL*

- Operated a custom Minecraft server from 2014 to 2020, reaching over 15,000 unique players and deploying Java-based minigames with the Spigot API
- Generated over \$10,000 in revenue through community-driven donations and premium in-game cosmetics

Itinerary Route Planning App | *C++, Qt, SQLite, Algorithms*

- Developed an interactive GUI route planner using Qt, implementing Dijkstra's algorithm and MST for optimal routing
- Built custom DFS-based graph traversal and managed persistent location data using SQLite

EXPERIENCE

Freelance Web Developer

Local Preschool Business

February 2024 – April 2024

Laguna Niguel, CA

- Developed and deployed a responsive full-stack website on AWS EC2, cutting hosting costs and ensuring continuous uptime
- Increased SEO click-through rate by 50% on average by optimizing page load speeds, metadata, and backlinks
- Built backend with Node.js and DocuSeal integration for secure contract signing and streamlined parent communication

OTHER WORK

DoorDash Driver

Independent Contractor

2021 – Present

Aliso Viejo, CA

- Balanced part-time DoorDash work with full-time CS coursework, demonstrating discipline and time management