

# Christopher Schrader

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## EDUCATION

### University of California, San Diego

Sep. 2023 – June 2025

*Bachelor of Science in Computer Science (Grade: 3.94)*

*San Diego, CA*

### Saddleback College

Aug. 2020 – May 2023

*Associate's in Computer Science (Grade: 3.9)*

*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

February 2024 – April 2024

*Local Preschool Business*

*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

2021 – Present

*Independent Contractor*

*Aliso Viejo, CA*

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