

# Damian Saelee

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## EDUCATION

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### University of the Pacific

Stockton, CA

*Bachelor of Science in Computer Science | Dean's List | GPA: 3.7/4.0*

*Expected May 2027*

- *Relevant Coursework:* Data Structures, Design & Analysis of Algorithms, Machine Learning, Programming Languages, Statistics & Probability, Discrete Mathematics, Application Development

### American River College

Sacramento, CA

*Associate of Science in Computer Science*

*Jan. 2023 – May 2025*

## TECHNICAL SKILLS

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**Languages:** C++, C#, Python, Java, R

**Performance / GPU / Parallel Computing:** CUDA, NVIDIA Nsight Systems, performance profiling, parallel computing

**ML / Data Libraries:** PyTorch, scikit-learn, pandas, NumPy, Matplotlib

**Developer Tools:** Git, Docker, GitHub Actions, Azure Functions

**AI-Assisted Development Tools:** OpenAI Codex, Claude Code, ChatGPT

**Operating Systems:** Windows, Linux (Ubuntu, SSH)

**Productivity Tools:** Excel, PowerPoint, MS Project

**Frameworks / Engines:** Unity, SFML

## PROJECTS

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### GPU-Accelerated Card Image Classifier | *Python, PyTorch, CUDA, Nsight Systems, Git* March 2026 – April 2026

- Built a deep learning image classifier in PyTorch to classify Pokemon trading cards by species using transfer learning
- Developed asynchronous Python scripts that integrated with the TCGdex API and used aiohttp to collect metadata, download card images, and organize labeled datasets at scale
- Built Python automation scripts to preprocess images, normalize labels, and generate training, validation, and test splits for supervised learning
- Fine-tuned a ResNet-18 model with CUDA-accelerated training, reducing 5-epoch training time from 200s to 66s ( 67% reduction, 3.0x speedup), and evaluated performance on unseen test data
- Profiled training and inference workflows with NVIDIA Nsight Systems and NVTX markers, reducing inference time from 15s to 8s ( 47% reduction, 1.9x speedup) by identifying and addressing pipeline bottlenecks

### CUDA-Accelerated Mandelbrot Renderer | *C++, CUDA, SFML, Git* January 2026 – February 2026

- Implemented a massively parallel Mandelbrot set computation using CUDA with per-pixel GPU parallelism
- Profiled CUDA kernel execution using NVIDIA Nsight Systems to analyze CPU-GPU interaction, kernel launch behavior, and execution timelines
- Designed kernels with contiguous global memory access and minimal per-thread global writes
- Benchmarked GPU execution against a CPU baseline to analyze speedup and scalability

### Unity Multiplayer Survival Game | *C#, Unity Netcode, Docker, Azure (Linux), SSH, Git* January 2026 – Present

- Designed a server-authoritative multiplayer architecture with server-side validation and authoritative state replication
- Synchronized player units and AI entities across clients using Unity Netcode, NetworkVariables, and RPCs
- Built a 3-tier NetworkTransform LOD system that scales sync frequency and AI tick rates by player proximity, reducing bandwidth and CPU load for distant entities
- Developed HTTP/REST API integrations between Unity clients and Azure Functions to coordinate matchmaking, server discovery, and PlayFab multiplayer server allocation
- Deployed Dockerized headless Unity servers on PlayFab and profiled CPU and network traffic to guide performance optimizations and batched AI updates

### Self-Hosted Minecraft Server Administrator | *Linux, JVM, Bash, Server Operations* 4+ Years

- Built, configured, and operated a long-running multiplayer server on a dedicated Linux host, sustaining 60+ concurrent users while automating backups and restarts to minimize downtime
- Tuned JVM flags and server configurations to maintain stable performance under concurrent user load
- Debugged crashes, performance bottlenecks, and concurrency-related issues in a live production environment
- Grew and supported a self-sustaining multiplayer service generating \$30,000 in cumulative revenue

## EXPERIENCE

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### **Pharmacy Technician**

June 2019 – February 2026

*Walmart*

*Galt, CA*

- Processed prescriptions accurately in a fast-paced, compliance-driven healthcare environment
- Maintained strict adherence to HIPAA, state regulations, and pharmacy safety standards while supporting pharmacists and patients