Daniel Andre Grijalva

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EDUCATION

Grand Canyon University (GCU) — B.S. in Software Engineering
Expected Apr 2026 • GPA: 3.5 (Major)
Relevant Coursework: Data Structures & Algorithms, Distributed Systems, Operating Systems, Database Management, Web Development, Computer Graphics (OpenGL)

TECHNICAL SKILLS

Languages: C, C++, Python, Java, JavaScript, TypeScript, SQL, HTML/CSS
Frameworks/Tools: Node.js, React, Next.js, PostgreSQL, Docker, Git/GitHub, AWS (Lambda, S3, RDS), Linux/Unix, API Design, Concurrency & Parallel Programming, CI/CD, Cloud Systems, Agile/Scrum, Data Modeling

PROJECTS

Recipe & Blog Social Platform — Node.js, PostgreSQL, Next.js
- Built scalable REST APIs with PostgreSQL auth, migrations, and relational schemas to support multi-user workloads.
- Containerized with Docker and deployed via CI/CD pipelines for high availability.

PhytoPi Plant Health Monitor — C, IoT, Cloud
- Engineered modular IoT system streaming data to AWS services (IoT Core, S3, Lambda).
- Prototyped neural-network-driven analysis pipeline for classification tasks.

Sierpinski Gasket Renderer — C++/OpenGL
- Recursive fractal renderer with matrix transforms and linear algebra.
- Applied multithreading to cut render time by 2×, demonstrating concurrency and performance tuning.

DE10-Standard Reaction-Time Game — C, FPGA, ARM HPS
- Designed an interrupt-driven embedded game with sub-5 ms latency.
- Optimized graphics pipeline for real-time performance under constrained hardware.

VR Learning Application — Unity, C#
- Developed immersive VR app with AI-driven interface to teach life skills.
- Collaborated with a cross-functional team and presented to 2,000+ students, showing teamwork and impact.

LEADERSHIP & INVOLVEMENT

VR Learning Application — Team Lead
- Led a 3-person team, delegated tasks and set project milestones, managed DevOps pipelines, ensured code integration, and kept the team on schedule, then delivered one of the highest-rated projects in class, presented to 2,000+ students.

AI Club — Member (2024–Present)
- Participated in weekly workshops exploring ML models, data preprocessing, and applications of AI in real-world projects.
- Collaborated with peers on small coding challenges and hackathon-style events.