Daniel Kirkpatrick

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EDUCATION

California Polytechnic State University (SLO) - College of Engineering — San Luis Obispo, CA
Bachelor of Science in Computer Science — *Graduated 2020*

EXPERIENCE

Software Engineer - Full Stack — 2019 – 2021
Omegabit, LLC — *San Luis Obispo, CA*
- Developed RESTful API's in order to securely send assets to Augmented Reality/Virtual Reality application (encryption in transit and at rest)
- Automated file conversion and optimization to display in Augmented Reality / Virtual Reality Applications
- Redesigned front end to improve SEO (Search Engine Optimization) in order to optimize the targeting of enterprise customers
- Developed an Augmented Reality/Virtual Reality application to host multiple concurrent users in private virtual rooms

CERTIFICATIONS

CompTIA Security+ — 2025
CompTIA SY0-601 — *Cybersecurity*
- Demonstrated expertise in network security by implementing and managing firewalls, VPNs, and intrusion detection/prevention systems (IDS/IPS) in compliance with security best practices.
- Conducted risk assessments and vulnerability scans to identify security weaknesses, leading to proactive mitigation strategies and improved system resilience.
- Ensured compliance with industry standards and regulations, such as GDPR, HIPAA, and PCI-DSS, by developing and maintaining security policies and procedures.

AWS Solutions Architect - Associate — 2025
Amazon Web Services SAA-C03 — *Cloud Services*
- Designed and deployed scalable, highly available, and fault-tolerant architectures on AWS, leveraging services like EC2, S3, RDS, Lambda, and VPC to optimize performance and reduce operational costs.
- Developed secure cloud architectures by integrating AWS security services such as IAM, KMS, Shield, WAF, and CloudTrail, ensuring data privacy and compliance with industry standards.
- Optimized database architectures by selecting the appropriate AWS database services (RDS, DynamoDB, Aurora) based on application requirements and performance considerations.

PROJECTS

MMORPG Automation | *Python, pyautogui*
- Developed a bot to automate repetitive tasks in a assively multiplayer online role-playing game (MMORPG)
- Successfully avoided bot detection through the use of randomization and human-like patterns

Website Portfolio | *Amazon Web Services (AWS), Amazon S3, reactJS*
- Developed a static website in reactJS in order to display my portfolio and resume. Hosted on Route 53 with automatic deployment when pushed via git

Closed Caption Scraping | *Python, pandas, BeautifulSoup, Jupyter*
- In order to ease in studying, scraped a course website to grab link to closed captions for each lecture
- Retrieved captions from URL and converted to a readable format to simplify search

TECHNICAL SKILLS

Languages: Java, Python, C, SQL , JavaScript, HTML/CSS
Frameworks: React, Node.js
Developer Tools: Git, Amazon Web Services, VS Code, Visual Studio, Eclipse
Libraries: pandas, NumPy, pyautogui, beautifulSoup, JuPyter
Interests/Specialties: Cybersecurity, Cloud Services, Automation, Artificial Intelligence, Web Development, Software Engineering, Augmented Reality, Virtual Reality, API Development