

Alex Nagel

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Software Developer / Information Security

Cyber Security & Privacy ■ Object-Oriented Analysis ■ Design & Development

- ◆ **Innovative full stack developer** - grasp the full software development life cycle, from concept to delivery.
 - ◆ **Versed in the latest cyber security trends** – penetration testing is my passion and I want to defend critical infrastructure from hackers and malicious users.
 - ◆ **Analytical abilities** - able to analyze problems and engineer well-researched, cost-effective and responsive solutions.
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Technical Skillset

Python, Django, JavaScript, HTML, CSS, SQL, PHP, TCP/IP, jQuery, C, C++, Bootstrap, AWS, R, DevOps, Microsoft, GIT, A/B Testing, Java, CoffeeScript, Docker, Virtual ENV, Serverless, Microservices, SQL Injection, Pen Testing, Batch, Bash, Linux, Mac, Networking, Lambda, EC2, ACL, VBA, Google, XML, Macro, Writing Tests, Security, API, Machine Learning, Unit Testing, Virtualization, WordPress, Accessibility

Professional Experience

Techranger (Web Developer), May 2015 to Present – **UCF Center for Distributed Learning**, Orlando, FL

Provided support, troubleshooting, and consulting for various groups within the University in a variety of areas. My favorite areas of focus were full stack Python development, AWS Lambda, and automation scripts.

- ◆ Following object-oriented modeling, I enhanced an API driven security tool written in Python. "Lookout" monitors the Instructure Canvas LMS privileged user behavior for abuse via an established ruleset. I'm excited because I'm researching and planning an alternative machine learning based approach. Its primary goal is to ensure accountability within the learning environment by sending a daily report to team leaders. University executives can rest easy, knowing their employees aren't abusing their powers.
- ◆ Led the team in research and development on Serverless deployments and other emerging technology. I successfully adapted most of our Python code to be able to be run on AWS Lambda and still communicate with our vital infrastructure including the Lookout script.
- ◆ Presenter in multiple panels on the ability to effectively translate user needs into easy-to-understand solutions. Earned multiple awards for my success on the student employee panels.

Freelance Worker, Aug 2012 to Present – (**Mashmeyer Concrete, Fasig Design, YMCA, NWOS, SWCA**)

Assisted in all areas of information technology for different companies overall bettering my skills and enhancing the companies I worked for. Web development and network security were my primary focuses.

- ◆ When contracted at Fasig Design, I planned and implemented a bulletproof network. While at Mashmeyer, I added new group policies and stricter access control to further the security in their company.
 - ◆ While working at the YMCA, I noticed a security flaw in the way they handled volunteer's hours. I wrote a time card system in VBA and excel to record actual hours worked by volunteers to protect sensitive info. I also revised www.ymcatreasurecoast.org and gained 2,000 relative likes on their Facebook page in 3 days.
 - ◆ Provided professional communication, marketing, and accessible web design for Nash's World of Sound and Sound Wave Car Audio. Which in turn brought in an average 30% increase in customers per quarter.
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Education

UNIVERSITY OF CENTRAL FLORIDA – Orlando, FL - **Bachelor of Science in Information Technology (BSIT)**

Minor in Secure Computing and Networks – Member of Hack@UCF – President of Racquetball Team – 3.25GPA