
EMPLOYMENT

DevOps Security Engineer Cloud9 Technologies LLC Nov 2017 – Present

- Developed rules using AWS Config and AWS Lambda to monitor & enforce security policies.
- Worked with auditors to ensure that our infrastructure met SOC2, ISO and TPO requirements.
- Managed and configured SAST/DAST and IDS/IPS solutions as well as security patching across over 300 hosts and 4 OS versions, including Windows and Linux.
- Hardened and deployed webservices and infrastructure in both AWS and GCP.
- Proactively identified security issues in our systems and worked with the appropriate teams to design and implement solutions.
- Managed SSL certificates for internal and external webservices.
- Deployed a Key Management Service using AWS KMS to enable Application Layer Encryption (ALE) of sensitive customer data.
- Developed infrastructure as code and configuration management using Terraform and Puppet.
- Assisted in the architecture and design of business critical and complex components of the product including a distributed messaging system and a streaming data pipeline.
- Mediated and resolved production issues as part of a 24/7 on-call rotation with responsibilities spanning from a C# desktop client, to audio and WebRTC, to backend PHP and Java processes.
- Developed Python scripts to automate infrastructure maintenance and monitoring tasks such as managing database backups, alarming on AWS SES e-mail bounce rates, and uptime of SAML authentication services.
- Deployed an ASR Machine Learning model, scaled the model for production workloads, and developed a webservice that transformed the input data and interfaced with the model.
- Developed and deployed containerized services on AWS ECS.

Security Consultant Accenture Jun 2013 – Nov 2017

- Architected and deployed global, customer-facing IAM solutions with up to 20M users.
- Worked in an agile environment and designed the CI & CD workflows using Jenkins.
- Developed infrastructure automation using AWS Cloudformation and configuration management using Ansible.
- Worked extensively with federation protocols such as SAML, OAuth and OpenID Connect.
- Developed and implemented external fine grained authorization systems using attribute based access control (ABAC).
- Designed and implemented user profile storage systems that were compliant with Data Privacy & Sovereignty laws.
- Became the first OpenAM Certified Specialist and was a SME & architect for ForgeRock integrations.
- Designed IAM federation solutions and integrations for challenging scenarios including applications that spanned geographical borders and firewalls, and applications that had unique integration requirements.
- Worked with CloudFormation, Ansible, AWS, Ruby, Java, Spring, SQL, ForgeRock, Oracle IAM, and Salesforce Identity.
- Worked on numerous internal development projects in addition to project work, including a Spring Security XACML PEP, infrastructure and configuration build automation, and sales demos.
- Promoted to Security Sr. Analyst in May 2014 and to Security Consultant in December 2016.
- Managed teams of up to 6 onshore and offshore developers.

Systems Integration Intern Accenture Summer 2012

- Created automated test scripts for an insurance quoting application using Selenium, XSLT and JUnit.
- Managed and trained two offshore QA Automation engineers to maintain and develop automation testing.

Investment Analyst Intern UCONN Foundation Fall 2011 – Spring 2012

- Collected and analyzed endowment performance and evaluated prospective investments.
- Automated performance metrics generation and reduced monthly analysis time by 30%.

Engineering Intern Sikorsky Aircraft Summers 2010 – 2011

- Created a C# application that allows users to design multi-factor displays and auto-generates flight critical C++ code that reflects the design and runs on an embedded system.
- Embedded Microsoft Visual Sourcesafe functionality into a proprietary helicopter design application.
- Applied the CMMI management model and helped prepare for two Class C appraisals.

EDUCATION

Storrs, CT University of Connecticut Fall 2009 – May 2013

- B.S.E. in Computer Science & Engineering with Honors, May 2013. GPA: 3.6
- B.S. in Finance with Honors, May 2013. GPA: 3.6

ADDITIONAL EXPERIENCE & PROJECTS

- **Recurse Center (2017):** Participated in a six week program where I completed a machine learning competition, developed a distributed hash table in Go, and studied OS fundamentals.
- **Back on My Feet Co-Lead (2014 – 2017):** Lead a volunteer partnership between Accenture and Back on My Feet NYC, engaging hundreds of volunteers for 30+ events over 3 years.
- **Additional Course Work (2016 ?2017):** Completed the Bitcoin & Cryptocurrency Technologies and Machine Learning courses on Coursera.
- **Undergraduate Honors Thesis (2013):** Applied statistics and financial math to evaluate equities in the S&P 500 for pairs trading and validated strong candidate pairs on live trading data.
- **Undergraduate Researcher (2010 – 2012):** Developed and implemented algorithms in bioinformatics, specifically to identify transcription factor binding sites and align genes across species.

LANGUAGES AND TECHNOLOGIES

- C++ (Prior Experience); C# (Prior Experience); Go (Prior Experience); Java (Proficient); Python (Proficient); Ruby (Prior Experience); SQL (Proficient);
- AWS; Oracle RDBMS; Git; Ansible; Jenkins; Docker; OpenDJ; LDAP;