Cody Ferguson

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EDUCATION

ILLINOIS STATE UNIVERSITY
Bachelor of Computer Science
Grad Dec 2017 | Normal, IL
Cum. GPA: 3.73

JOLIET JUNIOR COLLEGE
Associate in Science
Grad. May 2015 | Joliet, IL
Cum. GPA: 3.89

COURSEWORK
Web Development
Distributed Systems
Database Processing
Data Communications
Algorithms and Data Structures
Principles of Operating Systems
Application Development

EXTRACURRICULAR
Competitive Programming Club
Web Development Club
ISUSec (Security)
State Farm CTF
State Farm Mobile Development Contest
IT Professional Mentorship Program

SKILLS

PROGRAMMING
Experienced:
Python • Sentinel • Terraform
Skilled:
C# • Java • Shell • JavaScript
Familiar:
C++ • C • PowerShell • SQL
Android • Puppet LaTeX

SECURITY
GIAC Security Essentials (GSEC)
GIAC Advisory Board Member
Secure Coding
Antivirus Policy Managment (SEPM)
AWS Configuration Validation

INFRASTRUCTURE
AWS • Azure
HashiCorp Vault
Kubernetes
GitLab Pipelines

EXPERIENCE

STATE FARM | Lead Software Engineer
Apr 2022 - Present | Bloomington, IL
- Migrated manual HashiCorp Vault Deployment to Terraform IaC
- Automated validation of Vault configurations
- Created Sentinel policies to prevent insecure Vault configurations
- Wrote automatic data reports for Vault usage stats
- Mass updated Vault role configurations to reduce active entities in billed for

| Software Engineer
Feb 2019 - Apr 2022 | Bloomington, IL
- Automated validation of AWS security configurations
- Deployed AWS infrastructure with Terraform
- Created callable microservices in AWS Lambda

| Infrastructure Security Analyst
Jan 2018 - Feb 2019 | Bloomington, IL
- Automated endpoint protection configuration/management on 200k+ clients
- Upgraded Symantec Endpoint Protection Manager infrastructure
- Enabled External Device Usage Control to block reading from USB storage

| Intern
Jan 2018 - Feb 2019 | Bloomington, IL
- Created framework for CTF website to be used in recruiting events
- Wrote JCL job to find invalid IDs with DB2 access using RACF

ILLINOIS STATE UNIVERSITY | Debugger
Jan 2017 – Dec 2017 | Normal, IL
- Helped students solve issues with their Java code

| Teaching Assistant
Aug 2016 - Dec 2017 | Normal, IL
- Taught students object oriented programming concepts with Java

| Grader
Aug 2016 - May 2017 | Normal, IL
- Deciphered students' Java code and evaluated effectiveness

LINKS

LinkedIn:// **cody-ferguson**
Website:// **resume.codyferguson.us**

CERTIFICATIONS

2019	**GIAC Security Essentials Certification (GSEC)**
2019	**GIAC Advisory Board**