





Hans Pistor

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Work Experience

JPMorgan Chase

Software Engineer

January 2021 - Current

Tampa, FL

- > Led a team in triaging defects in a distributed microsystems environment
- > Spearheaded PGP implementation for secure communication with external entities (Visa, Mastercard)
- > Implemented features across multiple reactive microservices using Kafka for communication

Stetson University

Jr. Applications Developer

October 2017 - May 2020

Deland, FL

- > Built and maintained Android application to provide 2FA for students and faculty using TOTP method to interface with CAS system.
- > Built various web forms using Java Spring MVC for faculty to resolve painpoints between departments (ex. Data Entry, IT Project Request)

Projects

Chupacabra

Senior Research

- > Developed a tool to generate & provision a network of systems that are assigned random vulnerabilities to create a replayable mini-CTF. These VMs are all aware of each other & some of the vulnerabilities require the previous VM to be vulnerable in a certain way (i.e. to allow a reverse shell for remote code execution, you need to be able to create the reverse shell on the target but also receive the data on the host)
- > This tool was developed to assist teaching cybersecurity to students as it allows you to generate random ranges with unknown vulnerabilities

Security Audit

CINF 385

- > Audited Stetson's network security, discovering multiple vectors of attack
- > Found exploitable 3rd party camera firmware allowing unauthenticated access to video feed
- > Found SQL injection leading to admin access to main WordPress website used by teachers & faculty to communicate with students & host content

Education

Stetson University

BA Computer Science

2016 - 2020

Deland, FL

Skills

Languages Java, Python, Rust, Kotlin, SQL

Frameworks SpringBoot, Django

Technologies Reactive Programming, Kafka, Distributed Systems

Other

Collegiate Rowing Team

2018 - 2020

- > Men's rowing team in University.

IBM Master the Mainframe

2014 - 2019

- > Completed Part 2 of IBM's Master the Mainframe where mainframe technologies such as zOS, JCL, and COBOL are explored each year