Joshua Sen

Personal Info

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GitHub
www.github.com/senjoshua

Portfolio Website
www.senjoshua.com

Programming Languages

Java

C

C++

Python

JavaScript

HMTL & CSS

Tools

IntelliJ, PyCharm

MS Visual Studio

Git

Flask

Django

Node JS, Express

Apache Tomcat, Maven

Spring Framework

Jenkins

Sonatype Nexus

Windows, Linux, macOS

Databases

SQL, Oracle, MS SQL Server

MongoDB

SQLite, PostgreSQL

Work and Leadership Experience

Cisco – Software Engineer – June 2021 – Present
Networking/Communications Hardware and Software
- Working in Global Certifications Team (GCT) within Security & Trust Organization
- Built testing platform for Common Criteria (CC) testing with **Python**, **PHP**, and **MySQL**
- Automated CC test scripts using Python and **Robot Framework**
- Connected testing platform with device testbeds, and **Docker** containers to run CC tests
- Created **XML** parser in Python to generate HTML and DOCX documents
- Updated Dockerfiles and Docker container images

Discover Financial Services – Cyber Security Intern – Summer 2020
Digital Banking and Payment Services
- Worked in Application Security team to make security more seamless for development teams
- Integrating tools like Contrast Security (**IAST**) into team's CI/CD pipelines
- Developed and updated **Flask** API's to connect to Contrast Security
- Created **Python unittests** using **mock** library
- Onboarded teams using **Jenkins** and command line tools
- Participated in **Agile** development cycles and PI planning events
- Organized Capture the Flag (CTF) event for Cybersecurity interns

UPS – Software Development Intern – Summer 2019
Logistics, Transportation, and Package Delivery
- Worked on Import Tracking application which is part of the UPS.com suite used by large UPS customers to upload and track multiple shipments via a CSV file
- Worked as a part of an **Agile** Development Team that used **Scrum** framework
- Migrated the build process for **Apache Ant** to **Maven** for **Java** application
- Ported the application from **WebLogic** to **Apache Tomcat** and replaced **Log4j** with **Logback**
- Refactored code to work with Tomcat project structure and libraries

nova IQ – Summer Internship 2018
AI Startup
- Worked on Machine Learning project to capture, record, and retrieve data from TensorFlow models during training and execution
- Designed and developed REST API using **Flask** to connect **TensorFlow** models to **SQLite**
- Built automated test scripts using **Python unittest** framework

Education

Purdue University – Graduated May 2021
- GPA – 3.33/4.0
- Bachelor of Science in Computer Science
- Concentrations: Machine Intelligence, Security, Database and Information Systems
- Certificate in Entrepreneurship and Innovation
- Relevant Coursework: Java, C&C++, Discrete Math, Computer Architecture, Data Structures & Algorithms, Systems Programming, Information Systems, Cryptography, Data Mining & Machine Learning, Operating Systems, Intro to AI, Analysis of Algorithms, Computer Security, Relational Database Systems, Cloud Computing

Interests

Personal Projects
Letter Predictor
- Created a convolutional neural network with the **Keras** library and used the EMNIST letters database to train model. Used model to accurately predict handwritten letters (A-Z, a-z).

Face Group
- Developed a **Python** program using **face_recognition** library to extract facial information from a set of images of "friends", then sorted images into new folders based on each "friend".

Portfolio Site
- Built a personal website using **HTML** and **CSS** to showcase my work experience, skills, and personal projects

Activities
- 4th Degree Black Belt in Taekwondo from World Taekwondo Federation
- Purdue Running Club