

# Joshua Sen

## Personal Info

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Portfolio Website  
www.senjoshua.com

## Programming Languages

Python

Java

C

C++

JavaScript

## Tools

Git

Docker

Kubernetes

Flask

Django

AWS (Lambda, EC2, S3)

Google Cloud (GCP)

Node.js, Express

Spring Framework

Jenkins

Maven

Windows, Linux, macOS

## Databases

SQL, SQLite, PostgreSQL

MongoDB

## Work 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 Docker container images and built new containers for **IPSEC** testing
- Reviewed updated requirements for **X509** certificate testing and developed new scripts

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
- Integrated tools like Contrast Security (**IAST**) into team's CI/CD pipelines
- Developed and updated **Flask** APIs 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

- Bachelor of Science in Computer Science
- Concentrations: Machine Intelligence, Security, Database and Information Systems
- Certificate in Entrepreneurship and Innovation
- Relevant Coursework: 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

Wordle State

- Created a Google Chrome extension that shows correctly guessed letters in their positions for Wordle using **JavaScript**

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 **Bootstrap** and **jQuery** to showcase my work experience, skills, and personal projects