

Jack Sloane

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EDUCATION

Master of Engineering, Computer Science, May 2023

Virginia Tech, Blacksburg, VA

Concentration: Software Development & Applications

Relevant Courses: Web Application Development, Mobile Application Development, Blockchain Technologies

GPA 3.9/4.0

Bachelor of Science, Computer Science, Graduated May 202

The George Washington University, Washington, D.C.

Non-Technical Track: Business Administration

Honors: Summa Cum Laude

SKILLS

Programming Languages:

Most experienced: Java, C, and Python

Some experience: Kotlin, Golang, C++, and C#

Dabbled in: JavaScript, Rust, and Solidity

Software/Technologies:

MySQL, NoSQL, MongoDB, JSON, XML, HTML, CSS, Visual Studio, Android Studio, IntelliJ, Ethereum, Geth

INTERNSHIPS

IT DevOps Intern, Markel Corporation, Glen Allen, VA, May-August 2021

- Collaborated with 4 interns to develop a microservice application for estimating insurance risk across the U.S.
- Instantiated a database for each microservice using MongoDB for storage and Elasticsearch for indexing.
- Enabled messaging between microservices using Apache Kafka and Protocol Buffers.

IT DevOps Intern, Markel Corporation, Glen Allen, VA, May-August 2020

- Shadowed members of the DevOps team, which involved automating and governing the build, deployment, test, delivery, and maintenance portion of the systems development life cycle.
- Developed machine learning models for a drone-based remote insurance claim system.
- Integrated a performance evaluation system into an Elastic-Logstash-Kibana pipeline.

IT Development Program Intern, Genworth Financial Inc., Richmond VA, May-August 2019

- Gained valuable corporate experience by working with IT leaders and business partners across the organization.
- Worked with end users to gather PC software requirements and installed software applications.
- Configured PC's, monitors, printers, and updated PC information in ServiceNow CMDB.
- Utilized Microsoft SCCM to image PC's and redeploy existing inventory.

PROJECTS

D.O.G. (Digital Orientation Guide)

- Developed an Android app for an undergrad capstone project which aids visually impaired users by combining object detection and collision detection with an accessible UI with support for both voice and touch navigation.
- Implemented single-camera depth mapping functionality using depth-from-motion augmented reality API.
- Utilized Java and Kotlin, TensorFlow Lite, ARCore, and Google SpeechRecognizer.

GoodBite

- Developed a cooking/nutrition-oriented web app for a graduate-level software engineering course focused on industry cloud software application practices according to the client-server architecture paradigm.
- Collaborated with 2 graduate students while following the software life cycle processes, including problem formulation, requirements engineering, architecting, design, programming, and integration.
- Utilized Java, Jakarta EE, MySQL, WildFly, Java Persistence API and Java API for RESTful Web Services.

Adaptive Cross-Network Transactions with Node.js and Ethereum

- Engaged in research-oriented project focused on Blockchain scalability and applications for a graduate course.
- Implemented a Node.js-Ethereum framework in which a Node.js application operates atop 2 Ethereum private blockchain networks to facilitate and mediate adaptive cross-network transactions.
- Utilized Ethereum, Node.js, Geth(Go Ethereum), Solidity, and Smart Contracts.