

EXPERIENCE

Senior Software Engineer Associate	Capital One	Jan 2021 - Present
<ul style="list-style-type: none"> Created a <i>Java Springboot</i> web service in <i>AWS</i> to notify partner systems of account events (ie: new temporary card, new authorized user) Used <i>Apache Kafka</i> streams, <i>Docker</i>, a <i>microservice ECS architecture</i>, and <i>RDS</i> to scale for bursty traffic Mentored new engineers on codebase best practices through pairing sessions and planned the progression of their assigned work 		
Software Engineer	Capital One	Aug 2019 - Jan 2021
<ul style="list-style-type: none"> Leveraged <i>Java Springboot</i> to create a high TPS Credit Card Decisioning Platform in the <i>AWS Cloud</i> for optimal resiliency and user experience Migrated a mainframe disclosure generation process to a <i>serverless AWS architecture</i> for cost efficiency and resiliency Developed an in-store account lookup web application using <i>Java Springboot</i> to allow customers to find accounts from personal information Used tokenization & encryption techniques to secure sensitive information (ie: ssn) 		
Software Engineer	Spine Research Institute	Oct 2018 - May 2019
<ul style="list-style-type: none"> Used <i>Java Springboot</i>, <i>Hibernate</i>, <i>Swing</i> to produce desktop healthcare software with web backends Implemented multi-threaded capabilities for real-time sensor streaming 		
Software Engineer Intern	Texas Instruments	May 2019 - Aug 2019
<ul style="list-style-type: none"> Enhanced the TI Deep Learning Library for concurrent neural network execution across heterogeneous devices: DSP, EVE, ARM CPUs Leveraged <i>C++</i> & Arm Neural Network library (open source) to expand compatibility to Tensorflow, Caffe, Onnx, and PyTorch networks Implemented a double-buffered execution pipeline to allow network partitioning, resulting in a 250% performance improvement 		
Software Engineer Intern	Capital One	May 2018 - Aug 2018
<ul style="list-style-type: none"> Leveraged <i>Java SpringBoot</i> to create a web app for modifying microservice routes and Netflix Zuul filters for the mobile app back-end Used <i>Python</i> and a <i>Jenkins Pipeline</i> to validate Springboot YML profiles during code deployment, in response to production incidents 		
Software Engineer Intern	Texas Instruments	May 2017 - Aug 2017
<ul style="list-style-type: none"> Used <i>C++</i> to add hardware profiling features to the OpenCL runtime Developed a Python UI for profiling and visualizing hardware events such as L1 Cache misses and Stall Cycles during OpenCL Kernel Executions Integrated Program trace and hardware status monitors into the runtime 		
Lead Software Engineer Intern	Oak Ridge National Lab	May 2016 - Aug 2016
<ul style="list-style-type: none"> Lead team effort to visualize the national electric grid status on a US map for 911, FEMA, The National Guard, The White House Utilized <i>Python</i> to scrape utility outage websites and aggregate local outage data into <i>PostgreSQL</i> & <i>MySQL</i> databases Trained a Naive-Bayes machine learning classifier to extract outage relating tweets with 98% accuracy 		
Software Engineer Intern	Oak Ridge National Lab	May 2015 - Aug 2015
<ul style="list-style-type: none"> Modeled and simulated patient adherence to the Hepatitis-C Cascade of Care Leveraged <i>Java</i> & Repast Suite to create agent based simulations 		

EDUCATION

BS Computer Science & Engineering	The Ohio State University	GPA 3.9
TA for: Web Development & Design, Principles of Networking, & Intro to Programming		

AWARDS

Certified AWS Solutions Architect , Employee of the Month, Winner of 2016 OHI/O Hackathon, Full Tuition Scholarship, National AP Scholar

PROJECTS

eReader Mobile App: used NodeJS backend, NoSQL firebase notification API, AWS cloud to track reading ability & progress in reading app
Stock Trading App: used Python Flask backend, yahoo finance stock price api, https, DUO Mobile 2-factor authentication, Web captchas, inactivity timers, PBKDF2 encryption, and AWS cloud
Tweet Tone Analyzer: used Python Flask backend, IBM Tone analysis API, Twitter API to display tweet sentiment analysis from keywords

KNOWLEDGE

Languages: Python, Java, Ruby, C++, Javascript, SQL
Frameworks: Springboot, Hibernate, Rails, Flask, Django, NodeJS, Drools, Cucumber, Junit, Mockito, Karate
Platforms: Certified Amazon Web Services Solutions Architect, Jenkins, Postman, Git
Specialities: Cloud Architecting, Backend Web Development, Rest API Design, Database Architecting, Networking, Data Structures & Algorithms, Technical Writing, Presentations