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Education

The Pennsylvania State University

Bachelor of Science in Computer Engineering [Minor in Cybersecurity]

- University of Wollongong – Australia (Semester Exchange)
- Education Abroad – China (PSU Study Abroad & Internship)

State College, PA

Aug 2016 – Dec 2020

Feb – Aug 2019

May – Aug 2017

Experience

Grubhub

Software Engineer II | Python | Spark | Pandas | Java

Philadelphia, PA

March 2022 – present

Collaborating with teams of data scientists and engineers to develop and improve Fulfillment experimentation tools.

- » Runtime Improvements: Led analyses optimizations, achieving 76% faster runtime for an estimated \$940k savings.
- » Power Analysis: Integrated tooling between Fulfillment and Diner divisions for an estimated cost savings of \$3-5M+.
- » MLOps Framework: Helped implement and maintain a standardized framework for training real-time inference models.

J.P. Morgan Chase

Software Engineer I / II | Java | Spring Boot / WebFlux | Kafka | Cassandra

Tampa, FL

Feb 2021 – Feb 2022

- Modernized the Payment API microservices to be more scalable, reactive, and non-blocking.
- Created and maintained features across multiple services in collaboration with teams of engineers.
- Wrote resiliency, integration, BDD, and unit tests to ensure proper functionality of code added to services.
- Guided incoming engineers through pair programming and creation of technical primers/documentation.

Siemens

Software Engineer Intern | Node.js | Electron | Python

Atlanta, GA

Jul – Nov 2020

Created tools and features to improve the functionality of VersiCharge electric vehicle charging stations (EVCS).

- » Firmware Upgrade Tool: Minimized time and complexity of firmware upgrades by building a cross-platform desktop app for non-technical users. Included in the current field-configuration tool that customers and employees use.
- » Voltage Log Parser: Reduced analysis times around 70% with a tool that summarized voltage test logs into concise JSONs.
- » Modem Network Discovery: Enabled inter-device communication to streamline VersiCharge modem setup.

Diebold Nixdorf

Software Engineer Co-Op | Java | Python | C#

Canton, OH

Aug – Dec 2018

Improved usability of company technology and developed proof-of-concept applications for various devices.

- » Bluetooth Text-to-Speech System: Provided visually disabled people access to company machines via a smartphone application. Built an Android application, Bluetooth server, and Windows service.

Penn State

Engineering Research Assistant | Python | TensorFlow | NLP

State College, PA

Jan 2017 – Dec 2019

- Awarded funds from multiple sources to develop a variety of software to support Dr. Berdanier's research.
- Co-authored and presented our published research paper at the IEEE Frontiers in Education conference.

Projects

- » Tesla CyberTruck Store Clone (Full Stack) [Java / Spring Boot / Kafka]
- » Capstone 1st prize (\$1,000) - Johnson & Johnson POC [Android / Python]
- » Erickson Grant (\$3,500) - Sentiment Analysis [Python / TensorFlow]
- » CERl Scholarship (\$1,500) - NLP [Python / NLTK]
- » Reverse Shell, Buffer Overflow, and XSS Attack Labs [C / JS / HTML]

Relevant Coursework

- Data Structures and Algorithms
- Object-Oriented Programming
- Operating System Design
- Communication Networks
- Cryptography / Computer Security

Programming Skills

Backend:

Java (Spring) Python C/C++ REST

Data:

Apache Spark Hadoop Pandas Kafka SQL

Frontend:

JavaScript HTML/CSS

DevOps:

Git AWS Docker Kubernetes Jenkins JUnit