

# Eric Baker

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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

### J.P. Morgan Chase

Software Engineer | Java / Spring / Kafka / Cassandra (NoSQL)

- Perform backend development on Payment API services in accordance with Agile software development methodology.
- Develop reactive and scalable MicroServices with WebFlux to handle merchant transactions.
- Create and maintain features across multiple services in collaboration with teams of engineers.
- Write resiliency, integration, BDD, and unit tests to ensure proper functionality.
- Guide incoming engineers through pair-programming and creation of technical primers / documentation.

Tampa, FL

Feb 2021 – present

### Siemens

Software Engineer Intern | Node.js / Electron / Python

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

- » Firmware Upgrade Tool: Built a cross-platform desktop app that any employee can understand and use.
  - Minimized time and complexity of firmware upgrades (Previously required 10-pages of technical instructions).
  - Included in the current field-configuration tool that customers and employees use.
- » Voltage Log Parser: Created an app that can cut employee VersiCharge test log evaluation time by over 70%.
  - Summarized test log outputs of up to 1000 lines into JSON files of under 50 lines.
- » Network Discovery Tool with Modem Script: Decreased workload by automating VersiCharge modem setup and enabling device-to-device communication between them.

Atlanta, GA

Jul – Nov 2020

### Diebold Nixdorf

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

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 smartphone application. Built a POC client Android application, Bluetooth server, and Windows service.

Canton, OH

Jul – Nov 2018

### Dalian Fuyou Enterprise

Software Development Intern | Python

- Streamlined our team's financial analysis by automating conversion of transaction data from JSONs to Excel sheets.
- Taught Dalian Fuyou workers English and tutored more than 20 students of all ages at local schools each week.

Dalian, China

Jun – Aug 2017

### Penn State College of Engineering

Research Assistant | Python

- Awarded funds from multiple sources to develop a variety of software to support my professor's research.
- Co-author of a publication in the Journal of Engineering Education, as well as contributing to multiple others.
- Performed sentiment analysis on data using TensorFlow Machine Learning and Natural Language Processing (NLP).
- Automated a task to complete in seconds, saving 100+ hours using NLP to parse hundreds of files into usable data.

State College, PA

Jan 2017 - Dec 2019

## Projects

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

## Relevant Coursework

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

## Programming Skills

### Languages:

Java Python C/C++ JavaScript HTML/CSS SQL

### Technologies:

Git REST APIs Kafka NoSQL Spring WebFlux JUnit / JMockit Karate AWS WebSockets