# Eric Baker

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## EDUCATION

**The Pennsylvania State University** — *State College, PA*
*Bachelor of Science in Computer Engineering [Minor in Cybersecurity]* — *Aug 2016 – Dec 2020*
- *University of Wollongong* — *Feb – Aug 2019*
- **Education Abroad – China** *(PSU Study Abroad & Internship)* — *May – Aug 2017*

## EXPERIENCE

**J.P. Morgan Chase** — *Tampa, FL*
Software Engineer | Java / Spring / Kafka / Cassandra (NoSQL) — *Feb 2021 – present*

Perform backend development on Payment APIs in accordance with Agile software development methodology.
- Develop reactive MicroServices with WebFlux to handle merchant transactions for various methods of payment.
- Create features across multiple services in collaboration with teams of engineers.
- Build integration, resiliency, BDD, and unit tests based on customer requirements to ensure proper functionality.
- Guide incoming engineers through creation of technical primers and direct pair-programming.

**Siemens** — *Atlanta, GA*
Software Engineer Intern | Node.js / Electron / Python / HTML / CSS / JS — *Jul – Nov 2020*

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.

**Diebold Nixdorf** — *Canton, OH*
Software Engineer Co-Op | Java / Python / C# — *Jul – Nov 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 smartphone application. Built a POC client Android application, Bluetooth server, and Windows service.

**Dalian Fuyou Enterprise** — *Dalian, China*
Software Development Intern | Python — *Jun - Aug 2017*

- Streamlined our team's financial analysis by automating data plotting and manipulation.
- Taught Dalian Fuyou workers English and tutored more than 20 students of all ages at local schools each week.

**Penn State College of Engineering** — *State College, PA*
Research Assistant | Python — *Jan 2017 - Dec 2019*

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.

## PROJECTS

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|---|---|
| Tesla CyberTruck Store Clone (Full Stack) | [Java / Springboot / Kafka] |
| Johnson & Johnson ($1,000) Capstone Project 1st prize | [Java / Python / Android] |
| Erickson Grant ($3,500) - Social Media Sentiment Analysis | [Python ML & NLP] |
| Self-checkout Age Verification app | [SQL / HTML / C] |
| CERI Scholarship ($1,500) - Discourse Evaluation Script | [Python NLP] |

## 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:** Kafka | REST APIs | Git | Cassandra DB | Agile