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 – Australia**   *(Semester Exchange)*   *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 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.

Siemens   *Atlanta, GA*
Software Engineer Intern | Node.js / Electron / Python   *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#   *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 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 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.

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

» 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]
» CERI 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