Eric Baker

in LinkedIn.com/in/elb5465 ✉ elb5465@gmail.com ⚲ Tampa, FL ☐ 215-847-3441 ⌂ GitHub.com/elb5465 ⊕ elb5465.GitHub.io

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