JACK HENRY WELSH

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EDUCATION

Columbia University, **New York, New York**
Bachelor of Science in Industrial Engineering   **September 2019-April 2021**
Relevant Coursework: Business Analytics, Product Planning & Inventory Management, SQL Databases, Stochastic Systems, Advanced Optimization, Advanced Programming, Simulation and Modeling, Algorithms, Data Structures in Java
GPA: 3.5/4.0

Georgetown University, **Washington, D.C.**
Bachelor of Science in Chemistry   **August 2016-May 2019**
B.S. in Chemistry completed in 3 years at Georgetown in accordance with Columbia 3-2 Engineering program
Relevant Coursework: Intro to C++ 1 & 2, Data Structures in C++, Mathematics of Discrete Variables
GPA: 3.6/4.0

SKILLS

Java Programing: OCA certified, Revature's Java Business Programming Tech Stack (Java Basics, OOP Design, Threading, Java NIO, Hibernate, Apache Tomcat, Spring Framework, Spring Boot, Spring MVC, Webapps, APIs)

C++, Linux, Python, React, HTML, CSS, JS, Mulesoft: Stochastic Simulation, Graphing, Data Structures, Networking, Object-Oriented Programming, SFML Graphics Library, Advanced Data Structures, Generic Programming

Microsoft Office: Microsoft Word, PowerPoint, Excel, Outlook, Access (and VBA); especially data analysis in Excel: Optimization with Solver, Regression

Other Skills: ANOVA, R Programming and Business Analytics, SQL(Postgres), Wordpress, HTML, CSS, Javascript, Adobe Acrobat, Photoshop

EXPERIENCE

Lawrence Kelly & Associates Inc.   **June 2020-August 2020**
Database Engineering Intern
- Updated company database from legacy software to Microsoft Access and wrote C++ program to automate data transfer

Revature/ Bank of America   **May 2021-July 2022**
Java/Mulesoft Associate Programmer
- Trained in Revature's Java Business Programming Tech Stack (see above)
- Began at Bank of America as associate programmer in August 2021, implemented API flows, data processing logic, debugged API projects, studied and implemented bank system architecture

Bank of America Pay Merchant Services   **May 2022- Present**
Java/Mulesoft Technical Lead
- Work with senior engineers and delivery leads to convert LOB objectives into implementable solutions
- Understand bank systems at a high level to design, maintain, and debug a complex network of 40 Web APIs that includes 17 subsystems and generates $120 million of annual revenue for Bank
- Lead sub team of 6 engineers in AGILE scrum framework to resolve technical issues and keep project timeline

PROJECTS

Personal Website: – *https://JackHenryWelsh.com*   **July 2022 - Present**
- A personal repository of my many projects, passions, and hobbies. Coded in React native and deployed on AWS. Features other React projects, C++ projects, Java full stack applications and other hobbies of mine.

Technical Project: Axys Reader – *https://github.com/jhw2167/AxysReader*   **June 2020 –August 2020**
- Designed and implemented a C++ program to read reports generated in Microsoft Excel and convert them to database ready formats. Implemented: Object-oriented programming, polymorphism, file streams, advanced data structures, threading, user-interface, exception handling, debugging capabilities