JACK HENRY WELSH

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EDUCATION

Columbia University New York, New York
B.S. Industrial Engineering, B.S. Chemistry   **April 2021**
3-2 Program: Dual Degree program between Columbia University and Georgetown University, B.S. in Chemistry from Georgetown University, Cum Laude

EXPERIENCE

Bank of America Pay Merchant Services   **August 2021- Present**

Java/Mulesoft Technical Lead
- Lead sub team of 6 engineers in AGILE scrum framework to implement and maintain web APIs to support product onboarding and maintenance of payment terminals, software, and value added services
- Team assigned 1-3 quarterly projects budgeted between $200,000 and $1 Million
- Understand Pay Merchant Solution Architecture to design, maintain, and debug a network of 40 web APIs that includes 17 subsystems and generates $120 million of annual revenue for Bank
- Design web APIs to integrate with new business partners including National Cash Register and Apriva. Produced Solution Architecture Diagrams, High and Low Level Design Documents, and yaml API spec

Java/Mulesoft Associate Programmer
- Converted business objectives to API flows integrating HTTPS Web API Requests, manipulation of JSON Objects, exception handling, MUNIT Testing, logging

Revature Java Business Tech Stack   **May - August 2021**
- Revature's Java Business Programming Tech Stack (Java Basics, OOP Design, Threading, Java NIO, JDBC, Hibernate, Apache Tomcat, Spring Framework, Spring Boot, Spring MVC, Webapps, APIs)
- OCA certified (June 2022)

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

PROJECTS

Technical Project: Tracker Financial App   **Ongoing**
- *Postgres SQL Relational Database* – ORDBMS, 5 Relations, 3rd Normal Form, Stored Procedures, psql, AWS EC2
- *Java Spring Boot Backend API* – OOP, Hibernate ORM, Aspect Oriented Programming, Log4j, Web MVC framework, CORS, integrates Web APIs (Plaid), exception handling, Maven project manager, Web API, AWS EC2
- *React/Node Frontend* - Typescript, React, Web API Integration, JavaScript, JSX, Client Side Rendering, Plaid API, Hooks, Bootstrap CSS, NodeJS/Webpack package manager and bundler, AWS S3, Cloudfront, Route 53 DNS

Personal Website: – *https://JackHenryWelsh.com*   **Ongoing**
- A personal repository of my many projects, passions, and hobbies. React/Vite and deployed to AWS S3/Cloudfront. 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 – August 2020**
- Wrote a C++ program to read reports generated in Microsoft Excel and convert to database ready format
- Implemented: Object-oriented programming, polymorphism, file streams, data structures, threading, exceptions

Miscellaneous Technologies: Bash Script, HTML, CSS and vanilla Javascript, Chat GPT, Github Copilot; Microsoft Office Suite, especially data analysis in Excel: Optimization with Solver, Regression