



# Andrea Wolfgang Diano-Bavaro

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Citizenship: (EU) Italian

## EDUCATION

### University of Western Ontario

*Bachelor of Science in Computer Science*

### St. Michael's College School

*Ontario Secondary School Diploma — Basilian Book Award (90%+ average)*

London, CA — Aarhus, DE

*Sep. 2021 - June 2024*

Toronto, CA

*2015 - 2019*

## EXPERIENCE

### Full Stack Software Developer

May 2023 - Present\*

*Citi*

*Toronto, CA*

- Contributed to enhancing the **Citi Velocity** platform by developing and improving user experience for clients accessing financial data.
- Developed scalable microservices using **Java (Spring Boot)** and **JavaScript** on **AWS EC2**, integrating **Angular** for frontend interfaces and **GraphQL** for **SQL** databases.
- Optimized CI/CD pipelines with **Docker**, **Harness**, and **Red Hat OpenShift**.
- Migrated 20+ **Citi Velocity** microservices from **Swagger 2** to **OpenAPI 3**, improving API documentation quality and decreasing onboarding time for new developers.

### Junior Software Developer

Sep. 2022 - June 2024

*Western Algorithmic Trading Club*

*London, CA*

- Helped the trading team make smarter investment decisions by collecting real-time stock-related tweets and turning them into actionable insights.
- Used **Python** and **Selenium** to scrape Twitter data, then processed and analyzed it with **SQL** and **pandas**, delivering timely market signals.
- Visualized sentiment trends with **Matplotlib** and deployed a **Flask**-based API, enabling faster reactions to market shifts and improving investment strategies by 15%.

### Financial and Software Analyst Intern

May 2022 - Aug. 2022

*YDM Incorporated*

*Toronto, CA*

- Found ways to save the company money by analyzing where costs were too high and suggesting improvements to increase profits.
- Employed **Python (pandas)** and **SQL** on a **MySQL** database to uncover inefficiencies, informing strategies that enhanced cost-effectiveness.
- Implemented time series forecasting to predict future overheads, cutting expenses by 10% and raising profit by 7%.

## PROJECTS

### OpenAPI Migration Automation Tool | *Python, Regex, Java Spring Boot*

- Developed an internal Python tool for Citi to automate migration from **Swagger 2** to **OpenAPI 3.0**, reducing manual effort.
- Integrated recursive file processing and substring filtering, streamlining large-scale microservices migration.

### Personal Investment Platform | *React, Java Spring Boot, MySQL, Docker, Google Cloud*

- Created a web application for financial portfolio management using **React** and **Java Spring Boot**.
- Developed RESTful APIs for real-time stock data and deployed via **Docker** on **Google Cloud**, providing scalable market insights.

## TECHNICAL SKILLS

**Programming Languages:** Java, JavaScript, Python, C++, SQL

**Frameworks and Libraries:** Spring Boot, Angular, React, Flask, Pandas, Matplotlib, Selenium

**Tools:** AWS (EC2), Google Cloud (SQL), Docker, Harness, Red Hat OpenShift, Maven, Gradle, Git, GitHub, GraphQL, MongoDB, GraphQL Postman, J-Unit, MySQL, OpenAPI, Swagger, PowerShell, Regex

*\*Internship converted to full-time.*