Patrick **Copp**

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Skills

Languages	Java, C#, SQL, Python, JavaScript, C
Tools	Git, Kubernetes, Docker, Jenkins, Node.js, PL/SQL, AWS, JUnit/Cucumber

Education

University of Guelph *Guelph, ON*
B.Comp: Computer Science(Co-op), Minor Business *Sept 2017 - Apr 2022*
- **GPA : 3.7/4.0**
- **Teaching Assistant** for CIS*2520 (Data Structures) in Fall 2020 semester

Experience

NCR *Waterloo, ON*
Software Engineer Intern – Channel Services Platform *Jan – Aug 2021*
- Developed and tested **Spring Boot Java**-based banking APIs and **microservices** scaled to handle more than **100 million** requests/day
- Used **Kubernetes** and **Docker** to deploy microservices for development and testing
- Designed **Elasticsearch** indices, document templates, for the storage of cached teller and financial transaction data
- Participated in conduction of technical interviews, resume review for following intern class recruitment
- Maintained and contributed to financial transaction **JUnit/Cucumber** test suite feature files based on specific customer requirements and scenarios

MANTECH Inc. *Guelph, ON*
Software Developer Intern *May – Aug 2020*
- Created desktop **C# application** to automate calibration, reading, and reporting of water sensor results for hundreds of waste-water companies internationally
- Used **embedded C** firmware to improve calibration time of PeCOD water sensor by up to **50%**
- Wrote **C# hardware library** for Chemical Oxygen Demand Sensor

ERIS *Toronto, ON*
Data Analyst Intern *May – Dec 2019*
- Headed 3-person project for collection of more than 150 years of records for over **500,000** historical wells throughout NJ using **Selenium, urllib3, and PL/SQL**
- Consulted on the development of an in-house implementation of **OCR machine learning** project using **Python scikit-image** to read **10,000+** pages of historical City Directories for implementation of Historical Products launch in Canada
- Wrote **Python** code and PL/SQL procedures to perform analysis, normalization, and **ETL** work

Projects

Swipify
Tinder for Spotify *2021*
- Developed **Android app** using **Flutter** and Spotify SDKs to act as a Tinder for Spotify song discovery
- Released to **Google Play Store**, supporting over **100 active users**, **25,000+** songs provided for swiping

***New Girl* Quote Searcher**
Quote Searching Web App *2020*
- Created full stack **Node.js React** web app peaking at **1500+** requests/day
- Used **AWS's EC2, CloudFront, S3, and Route 53** for hosting of backend, static front-end, and support of **HTTPS**