

Philip Wanczycki

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WORK EXPERIENCE

JSI Telecom

Sep. 2021 – Dec. 2021, May 2023 – Aug. 2023

Software Developer Co-op

Ottawa, ON

- Designed and implemented .NET components and resolved critical bugs to support the ingress system of a large data analytics product suite.
- Developed comprehensive unit tests for new components, ensuring adherence to company standards for code quality and robustness.
- Leveraged knowledge in CI/CD and Docker to troubleshoot build pipeline errors, resulting in corrected Linux container configurations and enhanced testability from added metadata.
- Implemented a status monitoring dashboard for a Kafka messaging queue, enabling development, testing, and deployment teams to address data ingress issues more efficiently.
- Communicated effectively with product owners to identify requirements, manage expectations, and ensure the successful and timely delivery of software features, resulting in increased client satisfaction.
- Led an Agile demo, presenting the achievements of my team during a development cycle to other engineering teams.

EDUCATION

Carleton University

Sep. 2019 – Dec. 2023

Bachelor of Computer Science Honours

Ottawa, ON

- Graduated with High Distinction
- Dean's Honour Lists 2019-2022
- Volunteer for the Carleton Computer Science Society

PROJECTS - github.com/PWanczycki

Album Cover Genre Classification Neural Network

Apr. 2023

- Designed and trained an image classifier in Python based on the VGG16 neural network architecture, leveraging fine-tuning of pre-trained ImageNet models to improve accuracy in genre recognition tasks by 22%.
- Wrote several pre-processing scripts in Python, allowing new configurations of raw image data to be properly interpreted by the neural network.

“Quests” Multiplayer Online Card Game

Apr. 2022

- Implemented networking capabilities leveraging Java multi-threading and socket networking libraries to maximize scalability, which let the team easily refactor the project’s design as the client shared feedback.
- Applied Observer and Singleton design patterns strategically to avoid anti-patterns that could make the project harder to further develop and maintain.

SSBM Statistics Database

Apr. 2022

- Designed an SQLite database using knowledge of functional dependencies and normalization to ensure that the database cannot be subject to data loss from faulty queries and insertions.
- Applied knowledge of SQL vulnerabilities in the creation of a Python GUI wrapper for the database, resulting in an easy-to-use point of access with protection from SQL injection attacks.

Connect 4 Web Application

Fall 2020

- Designed and developed a Connect 4 website, seamlessly integrating front-end (HTML and CSS) and back-end (Node.js) components, resulting in a robust and engaging web application that provided an enjoyable gaming experience.
- Orchestrated the deployment of the project onto the OpenStack cloud computing platform, enabling easy demoing and testing.

SKILLS & INTERESTS

- **Skills:**

➤ Fluent in French & English	➤ Linux	➤ C#	➤ SQL
➤ Quick learner	➤ Git	➤ Java	➤ JavaScript
➤ Technical writing	➤ C	➤ Ruby	➤ Kubernetes
➤ Unit testing	➤ C++	➤ Python	➤ Selenium
- **Interests:** Artificial intelligence; Cybersecurity; PC building; Camping; Guitar; Hockey