

Patrick Deniso

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EDUCATION

Concordia University

Bachelor of Science in Computer Science

Montréal, Canada

Sept. 2021 – Dec. 2024

- **Teaching Assistant** for Principles of Programming Languages (C++, Python, Clojure, Erlang) in Fall 2022.

EXPERIENCE

Software Developer Intern | Angular, Python Quart, PostgreSQL

Sept. 2023 – Dec. 2023

Financial Markets at National Bank of Canada

Montréal, Canada

- Full-Stack Software Developer Intern working in the Analytics & Artificial Intelligence team.

Software Developer Intern | Java Spring, MongoDB, Kafka, JUnit, Mockito

May. 2023 – Aug. 2023

Intact Financial Corp.

Montréal, Canada

- Architected and launched a robust event handler for real-time updates across multiple insurance agencies, **managing thousands of broker records daily**. Used Spring (Boot, Data, Batch), MongoDB, and Kafka to build from scratch.
- **Enhanced support efficiency by 30%** through the creation of an API replay endpoint, facilitating manual insurance transaction testing, aligning with existing project infrastructure.
- Led a strategic refactor using Clean Architecture principles, executed a substantial API migration, and enhanced code simplicity, achieving a **40% reduction in complexity**.
- Successfully **resolved 15+ complex bugs** during a critical release's high-pressure phase, leveraging deep insights into code and architecture while collaborating with business analysts and QA engineers to enhance software quality.

Software Engineer Intern | Python, C#, Java

Oct. 2020 – Dec. 2020

ProgeSOFT Italia S.r.l

Como, Italy

- Developed automation scripts in Python & C# for web scraping new customers, and built a companion desktop app with a user-friendly UI. Enabled the sales department to leverage the tool, **boosting outreach by 50%**.
- Collaborated on a Java Android app, enabling the viewing of large CAD files, enhancing accessibility and efficiency.

Apprentice Software Developer | Python

June 2019 – July 2019

Elmec Informatica S.p.a.

Varese, Italy

- Built Python scripts and REST APIs for code-testing and task automation, boosting overall workflow.
- Stressed the company's network security by writing penetration testing scripts.

PROJECTS

Tabletop Party Finder | MongoDB, Express.js, React, Node.js, GraphQL

- Pioneered a web app connecting board game enthusiasts for online or in-person play, fostering community engagement.

Online Multiplayer Mobile Game | C#, Unity Engine, PHP, MySQL

- Developed an online multiplayer top-down shooter game with efficient networking design, enabling smooth play even on slow connections. Featured room-based matchmaking and a stats-saving database, enhancing user experience.

E-sport Tournament Manager Bot | Python, MySQL, Google APIs

- Led the development of a Discord bot to manage hundreds of concurrent clients in multiplayer video game tournaments, covering statistics, rankings, sign-ups, and match lifecycle.

LEADERSHIP AND INVOLVEMENT

HackConcordia Lead Software Developer | React, Express, MongoDB, TypeScript, Next.js

May 2022 – Present

- Constructed and maintained HackConcordia and ConUHacks websites & infrastructure, serving over 1000 users.

SAE Autoconnect Coordinator | Python, Tensorflow, Jetson Nano

Oct. 2021 – July 2022

- Spearheaded a 10+ students team in designing and developing unmanned land-based vehicles using Machine Learning, driving innovation and technical advancement.

TECHNICAL SKILLS

Languages: C#, Java, Python, C/C++, JavaScript, TypeScript, PHP, MySQL, PostgreSQL, MongoDB, GraphQL

Frameworks: Spring, React, Node.js, Express.js, Flask, Bootstrap, TailwindCSS, FastAPI, Unity, Unreal Engine 5

Platforms: Google Cloud Platform, Amazon Web Services, Heroku, Apache Server

Developer Tools: Docker, Kubernetes, Git, Linux, VS Code, Visual Studio, PyCharm, IntelliJ, Vim