

David Pietrocola

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EDUCATION

ADVANCED DIPLOMA IN SOFTWARE ENGINEERING

CENTENNIAL COLLEGE

Jan 2022 - Dec 2024 | Toronto, ON

Relevant Coursework: Advanced Database

DSA • Software Testing • Unix/Linux OS

Web Application Programming

Cum. GPA: 4.3 / 4.5

Award: *Global Perspective Digital Badge*

for excellence in engagement within leadership and volunteer activities.

SKILLS

TECHNICAL SKILLS

Proficient with:

Java • JavaScript (ES6) • TypeScript

SQL • OOP Concepts

Frameworks and Libraries:

Next.js • Express.js • Node.js • React

Tools:

AWS RDS • AWS Lambda

CloudFormation • Git • GitHub

Postman • Jira • Azure • Docker • Jenkins

Swagger UI • MongoDB • PostgreSQL

SOFT SKILLS

Effective organization skills

Communication abilities in multiple languages, including English, Italian, and Russian

HACKATHONS

NASA SpaceApp	Hon. Men.	Oct 2023
HarvardHack	Hon. Men.	Oct 2023
Hack The North		Sep 2023
DeerHacks	1 st	May 2023
MapHacks 2	1 st /79	Apr 2023
EducateHack	4 th /675	Apr 2023
MetHacks	1 st	Apr 2023

CERTIFICATIONS & CLUBS

Google Developer Club - UofT

Current

Centennial Programming Club

Current

CS50 - HarvardX

Dec 2022

Cloud Practitioner - AWS

Apr 2023

MongoDB Assoc Developer

July 2023

LINKS

LinkedIn:// [pietrocoladavid](#)

Github:// [DavDeDev](#)

PROFESSIONAL EXPERIENCE

FULL STACK DEVELOPER | BACKEND DEVELOPER | OMERS

Sep 2023 - Dec 2023 | Toronto, ON

- Developing new microservices in **Java Spring Boot** as a part of the Calculations team to accurately compute Pensions and Contributions for **thousands** of employees.
- Spearheaded a comprehensive overhaul of the existing microservice, leveraging **Generics** to enhance code **abstraction**, resulting in a more efficient and scalable system.
- Gaining expertise in best practices for **testing** and **deploying** new changes to ensure the reliability and stability of the software.
- Gained in-depth knowledge of **design patterns**' applications, and enterprise-level **cloud** infrastructure.

BACKEND DEVELOPER | WIMTACH

Jan 2023 - Aug 2023 | Toronto, ON

- Designed and deployed an **MS SQL server database** on **AWS RDS** and managed the ongoing performance and security of the database, implementing proactive monitoring and optimization strategies using AWS CloudWatch and AWS Budget.
- Developed APIs in Python, adopted a **serverless architecture** using **AWS Lambda Functions** and **API Gateway** for scalability and cost efficiency.
- Manage **DevOps** practices and supported the **AWS infrastructure**, ensuring **99.9% uptime** and a **40% reduction in deployment time**.

PROJECTS

OPZIONE ZEN | EXTENSION, GITHUB

Fall 2022 | HarvardX • Toronto, ON

- Built a Chrome extension that activates a reading mode in websites: W3School, MDN, Google Dev, Stack Overflow using JavaScript and CSS.
- Utilized the latest Chrome **extension API** (Manifest V3) version to access browser features and interact with web pages.

DISCAL - DISCORD BOT | LIVE, GITHUB, CODESEE

Summer 2023 | Toronto, ON

- Developed a Discord bot using **TypeScript**, Discord.js and **Google APIs** that allows server's users to manage a shared Google Calendar and collect all the upcoming Hackathons, conferences and other events from Discord.
- Setup a CI/CD pipeline using **AWS CodeDeploy** and **EC2** instance.

RELEVANT EXPERIENCE

MENTOR | CENTENNIAL COLLEGE

April 2023 – present | Toronto, ON

- Mentored **11** incoming college students, providing guidance, support, and resources to help them successfully transition to college. Demonstrated strong **leadership skills** in the mentorship role, inspiring and motivating mentees to achieve their academic and personal goals.
- Provided ongoing coaching and support to mentees, helping them develop essential skills and succeed inside and outside the classroom.