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

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

CERTIFICATIONS & CLUBS

Dec 2022	CS50 - HarvardX
Apr 2023	Cloud Practitioner - AWS
July 2023	MongoDB Assoc Developer
Current	Centennial Programming Club
Current	Google Developer Club - UofT

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

- Mentored 7 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.