

Nadia Gonzalez Fernandez

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EDUCATION

Master's Degree in Computer Science, University of Montreal	2024-2026
Bachelor of Science in Computer Science, University of Havana	2017-2022

RESEARCH EXPERIENCE

Master Research Student August 2024 — Present

Supervised by Benoit Baudry at the University of Montreal

- Currently conducting studies on amplifying the diversity within the ethereum software supply chain
- **Keywords:** Open-source software, Software Supply Chain, Dependency Trees, Blockchain, Ethereum

Bachelor's Thesis May 2022 — December 2022

Main Network Administration Center of the University of Havana, Havana, Cuba

- Conducted an in-depth state-of-the-art study of the latest software and tools used in SSO, resulting in the successful delivery of my diploma thesis, which earned the **highest grade** during the presentation.
- Designed and implemented a Central Authentication System capable of authenticating all University of Havana users across various clients.
- **Technologies used:** Keycloak, LDAP, Python, OpenID Connect, SAML, Flask

Project Intern May 2020 — September 2020

IT Department in Ministry of Foreign Affairs, Havana, Cuba

- Developed a user friendly end-to-end management system capable of tracking passport transactions to be used by ministry workers.
- **Technologies used:** C#, ASP .Net Core, Entity Framework, SQL

PUBLICATIONS

Y. Gamage, **N. G. Fernandez**, M. Monperrus and B. Baudry, "Software Bills of Materials in Maven Central," 2025 IEEE/ACM 22nd International Conference on Mining Software Repositories (MSR), Ottawa, ON, Canada, 2025, pp. 339-343, doi: 10.1109/MSR66628.2025.00062.

- **Keywords:** Bills of materials, software supply chain, maven central, dependency graph, package registry

VOLUNTEERING AND TEACHING EXPERIENCE

Teaching Assistant

Summer 2025, Fall 2025

IFT2255A Software Engineering, Department of Computer Science and Operations Research, University of Montreal

- Assisted in evaluating students and providing feedback to both students and teachers during the Summer 2025 and Fall 2025 semesters
- **Technologies used:** Software Engineering, Java, UML, Maven, Git

Volunteering

May 2025

Helped prepare and organize the **Journée de la recherche** du DIRO at the University of Montreal. This event highlighted the high-caliber research conducted within DIRO.

PROFESSIONAL EXPERIENCE

Full Stack Developer

November 2023 — July 2024

Opus EHR, Miami, Florida, United States (Remote)

- Worked as part of a fast paced team in the development and maintenance of Opus EHR, a streamlined solution for behavioral health and substance use disorder treatment centers.
- Delivered work under pressure, solving production bugs reported by clients.
- Specialized in automating and fine-tuning SQL queries to optimize report generation, elevating overall system efficiency and performance.
- **Technologies used:** .Net Core, Vue.js, C#, Javascript, Microsoft SQL Server, JSON, HTML, CSS

Full Stack Developer

March 2023 — October 2023

Blueberry Consultants Ltd, London, UK (Remote)

- Successfully worked on various .Net Core and Angular projects as part of different teams where collaboration was key.
- Responsible for the development of web projects developing both frontend and backend features.
- **Technologies used:** C#, Typescript, .Net Core, Angular, Microsoft SQL Server, MySQL, HTML, CSS

LANGUAGES

- Spanish — Native Proficiency
- English — Full Professional Proficiency
- Italian — Professional Working Proficiency
- Certifications: IELTS Overall Band Score: 8, CEFR Level: C1