

Daniel Ibanescu

daniel.ibanescu@hotmail.com — github.com/zazu7765 — linkedin.com/in/ibada

Skills

Technical Skills: C/C++, JavaScript/TypeScript, Python, HTML/CSS

Tools: AWS, Docker/Compose, Git/Github, L^AT_EX, PostgreSQL, Linux

Languages: English, Romanian

Education

Toronto Metropolitan University

Candidate for BSc Honours, Computer Science

September 2022 - June 2026

Toronto, Canada

Relevant Coursework: Computer Science I, Computer Science II, Ethics

Awards: Entrance Scholarship

Experience

Metropolitan Aerospace and Combustion Hub (MACH)

Transfer & Control Software Lead

September 2022 - Present

Toronto, Canada

- Designed and programmed an Arduino-based control system to trigger electrical signals for valve actuation.
- Processed sensor data on a Linux system accurately and reliably using a LabJack data acquisition unit in C++ and developed GUIs for data visualization in Python.
- Continuously involved in team management, including task delegation, scheduling and running meetings.

Robotics For All

Software Development Team Member

January 2020 - September 2022

- Initiated collaborations with school districts in Southern California via cold emailing.
- Led the development of integrations within their Google Drive and Slack workspaces.
- Gathered feedback and iterated on designs with volunteers to deliver high-quality software solutions.

Projects

Substitute Teacher Contactor

Robotics For All

TypeScript, Node, Docker, Slack Bolt

- Developed a Slack application/integration that retrieves available volunteer teachers and coordinators from a Google Sheet using their Cloud API, simplifying the substitution process for teachers.
- Managed all aspects of the system within Slack, without the need for further configuration.
- Deployed the system using AWS ECR/ECS on an EC2 instance connected to an RDS database.

Simple Notes

Collaborative Personal Project

Go, Postgres, Docker

- Designed and developed a simple notes application backend with a full CRUD API using GoFiber and PostgreSQL.
- Utilized an ORM for general queries and raw SQL for custom and complex queries, ensuring efficient database operations.
- Deployed the application on Heroku to enable access to users from anywhere, at any time.