

Mattia Di Profio

mattia.diprofio@gmail.com 07538148577 [LinkedIn](#) [GitHub](#)

Education

BSc Computing Science (2021-2025)

Relevant Courses - Artificial Intelligence – Data Structures & Algorithms – Databases & Data Management – Operating Systems – Software Engineering – Linear Algebra – Calculus – Modelling for Computer Science.

Technical skills

Frontend Development – HTML, CSS, Bootstrap, React JS, JavaScript

Backend Development – Python Django, Node JS, Java Spring, Express JS, MongoDB, MySQL

Data Science – Numpy, Pandas, Seaborn, Matplotlib, SciKitLearn, TensorFlow, SQL.

Other – C, Git & GitHub, Docker, Maven.

Projects

JetSetGo – Airline Reservation System | Python, MySQL, SQL

- Developed a desktop-based application which lets users book, track and edit airline reservations.
- Equipped with basic user authentication and unit testing for improved robustness and security.

PropertEase – Real Estate Marketplace | NodeJS, Express, MongoDB, Bootstrap, JavaScript

- Developed a web application where visitors can browse listed properties and manage their viewings through an intuitive dashboard, designed using HCI principles to enhance the user experience.
- Implemented REST API design principles to allow for efficient management of data and communication between app components.

SkillBridge – Careers Matchmaking Software | Django, SQL, SciKitLearn (ongoing project)

- Adopted Agile and Scrum principles within a team of 6 to automate the internship matchmaking process for the university's School of Medicine, Medical Sciences and Nutrition.
- Developed a matchmaking algorithm to assign students to placement opportunities with a 75% accuracy.
- Currently working on using machine learning to tailor the algorithm around our client's preferences and previous internship assignments,

Extracurricular

Lyft Backend Engineering Virtual Experience (The Forage)

July 2023

- Applied software architecture principles to improve scalability of Lyft's fleet infrastructure.
- Integrated unit testing to assess the quality of the newly engineered architecture.
- Implemented new feature onto the car models using test-driven development practices.

CTC30 Hackathon

September 2023

- Led team of 7 at Code The City's 30th Hackathon towards developing a product that would encourage tourism around the Union Street area in Aberdeen.
- Gathered project feedback through public survey and implemented a prototype for an interactive route planner which was selected against five other proposals for further development plans.