

## PROFESSIONAL PROFILE

Third-year MSci Software Engineering student at the University of Glasgow (graduating 2028) with a strong track record in full-stack web development, DevOps and machine learning. Experienced in building secure REST APIs with FastAPI, front-end applications with React/Tailwind, and deploying services using Docker and Git. In addition to academic projects, I volunteer as an IT tutor, demonstrating patience and the ability to convey technical concepts to non-technical learners. I am seeking a 12-month placement at BlackRock where I can contribute my technical skills, analytical thinking and passion for fintech to help deliver innovative solutions in the asset-management industry.

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## EDUCATION

### Higher National Certificate (HNC) in Computing | [Glasgow Kelvin College](#) (Aug 2022 - May 2023)

- Achieved **Grade A** (highest classification). Coursework included programming, computer systems, database design and project management.

### MSci Software Engineering with Work Placement | [University of Glasgow](#) (Sep 2023 - May 2028, Year 3 of 5)

- Currently enrolled in the third year of a five-year integrated master's programme focusing on software design, algorithms and data structures, databases and distributed systems.
  - Expected graduation: **2028** (required to complete a year-long placement as part of the degree).
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## CERTIFICATIONS & CONTINUING EDUCATION

- IT Essentials Professional Certificate** - Cisco, 2023 - gained professional-level skills in troubleshooting and system configuration.
  - Self-study courses** - completed Udemy courses on **Docker & Docker Swarm**, **FastAPI** and **React**. Currently exploring **Multipass** to provision local cloud environments.
  - Kaggle Competition** - built an image-classification model using TensorFlow and achieved the highest ranking.
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## EXPERIENCE

### Volunteer IT Support Tutor | [Scottish Seniors Computer Clubs](#) (May 2024 - Present)

- Plan and deliver one-to-one and group tutoring sessions for learners aged 50+, helping them navigate desktops, mobile devices and common software.
  - Develop clear instructional materials and adapt explanations to different ability levels; build confidence and digital literacy for dozens of learners.
  - Strengthen interpersonal skills, patience and the ability to simplify technical concepts.
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## ACADEMIC & PERSONAL PROJECTS

### Full-Stack Web Application (React & FastAPI) - College / Coursework

- Designed and built a single-page application using **React** and **Tailwind CSS**; implemented reusable hooks and caching strategies to improve responsiveness.
- Developed a secure **REST API** with **FastAPI**, incorporating user authentication via OAuth 2.0 and JWT tokens and supporting both traditional login and **Google sign-in**.
- Implemented password hashing using **Argon2ID** for enhanced security and integrated database access using **SQLAlchemy** with **PostgreSQL**; also used **SQLite3** for prototyping.
- Handled unreliable external APIs by creating a custom Promise timeout using **Promise.race()** and implemented comprehensive error handling.
- Deployed the full stack using **Docker** and **Docker Compose**.
- Note:** Source code is not public due to coursework/IP restrictions. I later extended the idea with peers for learning purposes by experimenting with Dockerization and deployment patterns (see public Dockerized project below).

### Dockerized Todo App (FastAPI + React + Tailwind + Docker Compose) - [Public repo](#)

- Built a production-minded full-stack app with **JWT auth**, **role-based access** (admin/user), and CRUD for todos; **admin** views include global users/todos and the ability to delete users with cascade.
- Frontend: React (Vite) + Tailwind, Nginx serves static and **proxies** /api to backend; protected & admin-only routes on the client.

- Backend: FastAPI, Pydantic, SQLAlchemy; password hashing with **bcrypt**; JWT payload includes sub, id, role, exp; admin checks enforced server-side.
- Infra: **Docker Compose** orchestrates **frontend** + **backend** + **Postgres** + **pgAdmin**; clean dev-onboarding via .env.example, detailed README, and curl smoke-tests.

**API & Webhooks Development (React & FastAPI)**

- Practiced building custom webhooks and a public-facing API using **FastAPI**, enabling real-time event notifications and integrations with external services.

**Team Project - Community Portal in Django - University / Coursework – [Public Repo](#)**

- Collaborated with classmates to design and develop a community platform with user registration, posts and comments using **Django**.
- Employed agile development practices and version control (Git) to coordinate work, conduct code reviews and manage releases.

**Machine Learning Project - [Link](#)**

- Self-studied **TensorFlow** and built an image-classification model; participated in a Kaggle competition and achieved the highest ranking.
- Demonstrated ability to learn new frameworks quickly and apply them to practical problems.

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**TECHNICAL SKILLS**

Area	Skills & Technologies
Programming Languages	<b>Python</b> (advanced); <b>JavaScript/TypeScript</b> (advanced); <b>Java</b> (intermediate); <b>SQL</b> (basic); <b>C</b> (basic).
Frameworks & Libraries	<b>FastAPI</b> , <b>React</b> , <b>Tailwind</b> , <b>Django</b> , <b>SQLAlchemy</b> , <b>TensorFlow</b> .
Dev Tools & Platforms	<b>Git</b> , <b>Docker</b> , <b>Docker Compose</b> , <b>Linux</b> , <b>Multipass</b> , <b>Vite</b> , <b>Nginx</b> .
Database Technologies	<b>PostgreSQL</b> , <b>SQLite3</b> ; experience connecting via ORMs and using Dockerised instances.
Security & Authorisation	<b>OAuth 2.0</b> , <b>JWT</b> , <b>bcrypt/Argon2ID</b> password hashing, <b>Google OAuth</b> integration.
Other	Webhooks development, asynchronous programming (e.g., <b>Promise.race()</b> ), API design, image classification with <b>TensorFlow</b> , 3D modelling (Cinema 4D, ZBrush).

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**ACHIEVEMENTS & AWARDS**

- **High academic performance** - maintain consistently strong grades in core computing modules.
- **HNC in Computing (Grade A)** - achieved highest possible classification at Glasgow Kelvin College.
- **Cisco IT Essentials certificate** - recognised by industry for professional-level IT knowledge.
- **Kaggle competition** - attained first place with a custom image-classification model.

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**ADDITIONAL INFORMATION**

- **Languages:** native Russian and Ukrainian; **proficient English**.
- **Interests:** 3D modelling (Cinema 4D, ZBrush); participating in online coding competitions; continually learning new technologies.

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**REFERENCES**

Available upon request.