

Jakub Maciej Szamotulski

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EDUCATION

UNIVERSITY OF STRATHCLYDE

3rd Year BSc Software Engineering

Glasgow, Scotland

Sep 2023 - Jun 2027 (Expected)

Passed First and Second Year with Distinction on the Dean's List

EXPERIENCE

PropEco

Hybrid, Glasgow, Scotland

Fullstack Software Engineer

Apr 2025 - Aug 2025

- Deployed a **self-hosted LLM** on AWS EC2 with **Docker**, reducing third-party API costs by **~50% saving ~£300/month**, while improving **data privacy and control**.
- Built a **report ordering** and **automatic PDF generation** system using **Stripe**, **Puppeteer**, and **API key authentication**, enabling seamless paid data access for clients.
- Developed **embeddable client website widgets**, enhancing engagement and traffic to the platform.

Poland 2.0

Remote

Frontend Software Engineer

Feb 2025 - Present

- Collaborated in an **Agile team**, contributing through **code reviews**, **pull requests**, and **sprint meetings**.
- Optimised website performance by implementing **lazy loading** and **next-gen image formats (WebP)**, reducing image load times by **~45%** and improving **Lighthouse performance score by 5+ points**.
- Achieved **WCAG 2.1 AA compliance**, improving **Lighthouse accessibility scores from 65% to 100%** and meeting sponsor contractual requirements.

PERSONAL PROJECTS

ScotBank (Java, Maven, Jooby) | CS217 Agile SWE Led by JPMorgan

Collaborated in a **team of 7** on a digital banking platform project, applying **Scrum practices** such as **sprint planning** and **retrospectives** to deliver features. Contributed through **peer code reviews** and **CI/CD integration**, **improving code quality** and **streamlining deployment efficiency**.

Muscle Memory - Workout Tracker and Planner Web App (MERN Stack) | [GitHub](#) | [Website](#)

Created a scalable **MERN-stack** web app used for personalised workout planning, optimising user training with **real-time tracking and analytics**.

GestureBind - Gesture Recognition Desktop App (Electron, Python, MediaPipe, Flask) | [GitHub](#)

Developed an Electron desktop app with MediaPipe, enabling gesture-based interaction with **90% recognition accuracy** and **cross-platform compatibility** while maintaining a **low resource usage**.

LEADERSHIP EXPERIENCE

Google Developer Group Glasgow - Organiser

Mar 2025 - Present

- Organised **Google I/O Extended Glasgow** for **100+ attendees**, ensuring **smooth event delivery** and **fostering community engagement**.
- Collected and analysed participant feedback to **improve event structure** and **boost future attendance**.

Lochside Academy, Aberdeen - Vice Captain, Prefect, Head Ambassador (MyWoW)

Nov 2021 - May 2023

- Planned and delivered **school-wide events for 200+ attendees**, demonstrating leadership and organisational skills.
- Coordinated across **diverse student teams** to ensure collaboration and successful event execution.
- Acted as a liaison between students, faculty, and parents, improving **communication** and **engagement**.

CERTIFICATIONS

J.P Morgan Software Engineering Job Simulation - Forage

June 2024

Built and tested banking features in **Python** and **Java**, applying **algorithms**, **Git workflows**, and **Agile practices** to simulate **real-world transaction processing and risk analysis**.

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, JavaScript, TypeScript, Spring Boot, React, Next.js

Tools & Libraries: AWS (EC2, S3), Git, Docker, PostgreSQL, MongoDB, Postman, JUnit, Mockito, GitHub Actions (CI/CD), REST APIs, Agile, TDD

Languages: English and Polish natively