

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

Relevant Modules: Data Structures & Algo, Agile SWE (with JPMorgan), Computer Systems & Architecture

EXPERIENCE

PropEco

Hybrid, Glasgow, Scotland

Fullstack Software Engineer

Apr 2025 - Aug 2025

- Deployed a **self-hosted Large Language Model (LLM)** on **AWS EC2** with **Docker**, reducing third-party API costs by **~50% saving ~£300/month**, and 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.
- Developed **embeddable widgets** for client websites to display **live company API data**, enhancing **customer engagement** and **driving traffic back to the core platform**.
- Implemented **user engagement features** including **OTP authentication**, **welcome emails**, and **automated CRON notifications**, improving onboarding and retention.
- Created an internal **schema validation tool** and **GitHub Actions for auto-deploy**, accelerating dev workflows and reducing deployment time by **~40%**.

Poland 2.0

Remote

Frontend Software Engineer

Feb 2025 - Present

- Integrated **internationalisation (i18n)** support using **Lingui**, enabling **full bilingual functionality** in **English** and **Polish** across the website.
- Designed and developed a **dynamic blog system** with **markdown support**, allowing the marketing team to **publish and manage 100% of the content** independently.
- 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

Portfolio Website (NextJS) | jszama.dev

A **responsive** portfolio website built with **NextJS**, featuring **Framer Motion** animations.

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**.

Promptly - Contextual AI Assistant Web Extension (Chrome Extension, Gemini, JavaScript)

Chrome extension that enables **seamless interaction with AI** by allowing users to highlight text or capture screenshots from web pages and instantly **generate personalised AI responses**.

LEADERSHIP EXPERIENCE

Google Developer Group Glasgow - Organiser

Mar 2025- Present

- **Co-ordinated registration for the Google I/O Extended** event, contributing to a smooth experience for **100+ attendees**, supporting community engagement.
- **Gathered and analysed participant feedback** to **improve event structure** for future events.

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, SpringBoot, NextJS, React, JavaScript, TypeScript

Tools & Libraries: AWS, Git, MongoDB, PostgreSQL, Docker, Postman, JUnit, Mockito

Languages: English and Polish natively