Jakub Maciej Szamotulski

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EDUCATION

UNIVERSITY OF STRATHCLYDE   Glasgow, Scotland
3rd Year BSc Software Engineering (Expected Graduation 2027)   September 2023 - Present
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   April 2025 - August 2025
- Deployed a **self-hosted Large Language Model (LLM)** on **AWS**, reducing third-party API costs by **~50%** 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 platform integration.
- 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   February 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 accessibility scores from **65% to 100%** and meeting sponsor contractual requirements.

PERSONAL PROJECTS

Portfolio Website (NextJS) | jszama.dev
        Personalised portfolio website that captures all my skills, experiences and career achievements.

[In Progress] Euthymia - Mental Health Journaling App (Turborepo NextJS, Spring Boot, PostgreSQL)
        Currently developing a journaling platform focusing on **mental health tracking** and **self-reflection**, with a **modular backend using OOP principles and design patterns** for maintainability and scale.

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   September 2023 - Present
- **Planned and executed** events for over **100 attendees**, demonstrating strong leadership and organisational expertise
- **Gathered** and **analysed participant feedback** to **improve event structure** and **increase satisfaction**

SKILLS AND INTERESTS

Languages & Frameworks: Python, Java, Spring Boot, NextJS, React, JavaScript, TypeScript
Tools & Libraries: AWS, Git, MongoDB, PostgreSQL, Docker, Postman, JUnit, Mockito
Language: Fluent in English and Polish natively