

# 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](https://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