

Jakub Maciej Szamotulski

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SUMMARY

Software Engineering student with experience building web applications using the MERN stack. Skilled in Python, React, and Java, with a track record of solving technical challenges. Looking for opportunities to apply my skills and collaborate on meaningful development projects.

EDUCATION

UNIVERSITY OF STRATHCLYDE

Glasgow, Scotland

2nd Year BSc Software Engineering

September 2023 - Present

Passed First Year with Distinction

Relevant Modules: CS105 Programming Foundations, CS106 Computer Systems and Organisation, CS103 Machines, Languages and Computation

EXPERIENCE

SUBSEA7

Westhill, Scotland

GIS Technician Intern

November 2022 – April 2023

- Automated data handling workflows with Python scripts, **improving productivity by 40%**.
- **Processed and managed** vessel route data using **Excel**, enhancing data accuracy and accessibility.
- **Collaborated** with diverse teams across different sectors, honing **teamwork** and **communication** skills.
- Quickly **adapted to new technologies**, demonstrating effective problem-solving in a high-paced setting.

PERSONAL PROJECTS

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**. Deployed on Vercel and Render with a focus on **scalability** and **user experience**.

GestureBind - Gesture Recognition Desktop App (Electron, Python, MediaPipe, Flask) |

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**.

CERTIFICATIONS

J.P Morgan Software Engineering Job Simulation - Forage

June 2024

- **Designed and implemented algorithms** to solve complex financial scenarios, **improving data analysis** and **decision-making accuracy**.
- **Developed and tested applications** using **Python** and **Java**, simulating real-world banking tasks such as transaction processing and risk assessment.
- Utilised **Git** for **version control** to manage and collaborate on code, ensuring **efficient workflows** and **seamless integration** with professional tools and technologies.

LEADERSHIP EXPERIENCE

LOCHSIDE ACADEMY

Aberdeen, Scotland

Vice Captain, Prefect and Head Ambassador of MyWoW

November 2021 – May 2023

- **Planned and executed** events for **over 200 attendees**, demonstrating strong leadership and organisational expertise.
- **Fostered team collaboration** by working with diverse student groups to deliver successful events.
- Acted as a **key liaison**, enhancing communication between students, parents, and faculty.

SKILLS AND INTERESTS

Languages & Frameworks: Python, Java, ReactJS, JavaScript

Tools & Libraries: AWS, Git, MongoDB, Docker, RESTful APIs, Postman, JUnit

Language: Fluent in English and Polish natively

Interests: Hiking, Basketball, Reading, Fitness