

# SUJAY PATIL

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## Education

### University of Glasgow

BSc (Hons) Computing Science

Sep. 2021 – June 2025

Glasgow, UK

### Relevant Coursework

- Algorithms and Data Structures
- Object Oriented Software Engineering
- Web Application Development
- Networks and Operating Systems Essentials
- Human-Centred Systems Design and Evaluation
- Data Fundamentals
- Systems Programming
- Cyber Security Fundamentals

## Experience

### GU Orbit

Software Engineer

Sep 2022 – Present

Glasgow, UK

- Contributed to the Cloudview Balloon Launch project by developing Python and C++ scripts and interfaced BMP180 sensors to Raspberry Pi with i2c connection
- Developing a remote sensing system for extracting features using a deep semantic segmentation pipeline for a space satellite
- Developing the prototype of the processing pipeline to be deployed on a aerial testing platform
- Part of the Astraeus-01 satellite mission, which is a four-year CubeSat mission to a Sun-Synchronous Orbit in its early stages

### RadicalX

Artificial Intelligence Engineer

Oct 2023 – Dec 2023

Remote (New York, USA)

- Worked on a design evaluator driven by AI, where users input PDF design deliverables, and our AI assesses and gives comments.
- Created an AI-powered interview preparation tool for those getting ready for a job interview in data analytics.
- Developed robust anti-cheat and fraud detection systems
- Enhancing the internal RadicalX chatbot RexAI with more capabilities

### University of Glasgow

Level One Student Mentor

Sep 2023 – Present

Glasgow, UK

- Mentoring 5 first-year students studying computer science and software engineering
- Provide guidance on time management, adjusting to university life, extracurricular activities, and recent coursework that has presented challenges

## Projects

### Interview Prep AI | Python, Streamlit, Whisper, LangChain, Large Language Models

December 2023

- Working with some of the guys, I've been developing an interview preparation tool for those getting ready for a data analytics interview. The app allows the user to upload their résumé and receive questions tailored to it, or it just asks questions without requiring the resume to be uploaded.

### AudioScribe | Streamlit, OpenAI, Whisper

October 2023

- I used Streamlit to create a web application that would assist me convert the audio from my university lectures into transcriptions. This software utilizes the Whisper model from OpenAI to transcribe audio files.

### Froggr | HTML, CSS, JavaScript, Django, Bootstrap, jQuery

March 2023

- As part of my Year 2 project, I worked with a team to develop Froggr, a blogging web application. Django, Bootstrap, jQuery, and many other technologies were used. The project was graded an A1.

## Technical Profile

**Languages:** Python, Java, C, C++, C#, HTML/CSS, JavaScript, MySQL, MATLAB

**Frameworks:** Django, Flask, jQuery, Tkinter, Swing(JAVA), Unity, Docker, ROS (Robot Operating System)

**Technical skills:** Web Application Development, Design Patterns, Object-Oriented Programming, Database Modeling, Data Structures and Algorithms, Software Testing, Git, Human-Computer Interaction, Linux, Prompt Engineering, Unified Modeling Language, Large Language Models, Problem Solving, Microsoft Office, Deep Learning, NumPy, Figma