

SUJAY PATIL

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Education

University of Glasgow

Sep. 2021 – June 2025

BSc (Hons) Computing Science

Glasgow, UK

Relevant Courses: Algorithms and Data Structures, Object Oriented Software Engineering, Web Application Development, Robotics, Database Systems, Data Fundamental, Systems Programming, Cyber Security Fundamentals, Mobile HCI

Experience

GU Orbit

Sep 2022 – Present

Software Engineer

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

Oct 2023 – Dec 2023

Artificial Intelligence Engineer

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

Sep 2023 – Present

Level One Student Mentor

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

Project Gundam | Unity, C#

Ongoing

- As part of my Year 3 project, I am working with a team to develop a mobile AR app for UofG gaming lab using Unity and C#. This app will be showcased at the upcoming SSE event in June, and the project is still ongoing, predicted to be completed by March 2024. Link: <https://stgit.dcs.gla.ac.uk/team-project-h/2023/sh36/sh36-project>

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

Frameworks: Django, Flask, jQuery, NumPy, Unity, LangChain, ROS (Robot Operating System)

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