

SUJAY PATIL

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Education

University of Glasgow

Master of Science - MSci in Computer Science

Sep 2021 – July 2026

Glasgow, Scotland, UK

Relevant Courses: Algorithmics, Networks and Operating Systems, Robotics, Database Systems, Machine Learning, Deep Learning, Systems Programming, Cyber Security, Data Product Engineering, Big Data, Web Application Development

Experience

Glasgow University Software Service

Software Engineer

Mar 2024 – Present

Glasgow, Scotland, UK

- Translating Analogue Circuit Design Tuning MatLab Codes into Production Python Code using ML algorithms
- Implementing Simple Machine Learning Techniques to build and train neural networks for constraint optimization
- Built test cases to guarantee the optimisation algorithm's accuracy and efficiency.
- Engagement with peer coding sessions and carried out thorough code reviews to ensure code efficiency.
- Technologies used: NumPy, PyTorch, MATLAB

Barclays

Jun 2025 – Aug 2025

Technology Analyst Intern

Glasgow, Scotland, UK

- Created a comprehensive list of annual supplier contractual obligation waivers across 5 different risk horizontals.
- Reviewed the sub-limited risk JIRA portfolio to assess completion status and risk treatment for outstanding items.
- Identified sub-limited Cyber waiver tickets to raise them to limited risk status in ORAC to enable tracking and oversight
- Automated a list, that maps all Standard and Horizontal Owners to their respective areas of responsibility.
- Technologies used: Jira, ORAC, Microsoft Excel, Microsoft Teams

GU Orbit

Sep 2022 – Aug 2025

Head Software Engineer

Glasgow, Scotland, UK

- Lead a team of Software Engineers in building software tools to aid the society's satellite launches
- Developed the prototype of the processing pipeline to be deployed on an aerial testing platform.
- Developed Python and C++ scripts and interfaced BMP180 sensors to Raspberry Pi with i2c connection.
- Successfully completed the CloudView balloon launch. The trip lasted 3 hours and sent back large amounts of data.
- Technologies used: C++, Python, Docker, Raspberry Pi, Git, Microsoft Teams

National Manufacturing Institute Scotland

Jun 2024 – Jun 2025

Software Engineer Intern

Paisley, Scotland, UK

- Developed an AI system that can read, extract, and classify invoice data to carry out comprehensive carbon accounting.
- Developed and deployed a detailed reporting module capable of generating reports based on GHG protocol categories.
- Built a Machine Data Analysis system for 80+ machines with real-time energy insights and automated reporting.
- Technologies used: Python, Django, React.js, OpenAI API, Figma, Git, Microsoft Teams, Microsoft Excel

Projects

AI-Powered Life Cycle Assessment Tool - LCAi | Django REST, React.js, OpenAI API

Sep 2024 - Mar 2025

- In collaboration with the National Manufacturing Institute Scotland, I developed an AI-powered Lifecycle Assessment (LCA) tool designed to evaluate the environmental impact of products. The tool automatically analyzes Bills of Materials (BOMs) and related product data to assess environmental impacts across the product's entire lifecycle.

UofG Gaming Lab - Project Gundam | Unity, C#

Sep 2023 - Mar 2024

- Worked with a team to develop a mobile augmented reality application for the UofG gaming lab using Unity and C#. By encouraging WorldCon 2024 participants, to explore Glasgow, this app aims to enhance visitors' experiences of the city. In addition the app also provides the user with a compass that indicates their distance from the Gundam model and a Gundam tracker that keeps track of all the Gundam models they have spotted, Project Gundam spawns several sorts of Gundam Models (along with a quiz, and a description box containing information about the Gundam) across Glasgow.

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

Feb 2023 - Mar 2023

- Built a blogging web application that enables users to create and submit blogs on any subject they want. In addition, the app lets users see all of the blogs that other users have submitted, follow other users, and register for an account. Numerous technologies, including jQuery, Bootstrap, and Django, were employed.

Technical Profile

Languages: Python, Java, C, C++, C#, HTML, CSS, JavaScript, SQL, MATLAB, MiniZinc

Frameworks: Django REST, Flask, React.js, jQuery, NumPy, Unity, PyTorch, ROS (Robot Operating System)

Technical skills: Git, Full-Stack Development, Artificial Intelligence, Mobile AR Development, Object-Oriented Programming, Database Modeling, Human-Computer Interaction, Data Engineering, Figma, Project Management, Documentation, LaTex, Power BI, Data Analysis, Quality Assurance, Deep Learning, Business Development