



Samir K C

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Summary

Software Developer with a strong focus on Process Automation, API integrations, and data-driven workflows. Experienced in building scalable automations, backend services, and scripting. Currently pursuing a Master's degree in Information Technology in Germany.

Skills

Technologies

Python, Javascript, PyTorch, Go, OpenCV, REST APIs, OpenAPI, SQL, PostgreSQL, Power Automate, Azure AD, Node.js

Experience

Mutares SE & Co. KGaA

02/2025 – 08/2025

Work Student

Munich

- Developed a Model-Driven Power App for maintenance planning and operational tracking.
- Built Power Automate flows to automate task scheduling, reminders, and status updates.
- Enhanced application logic and user interaction using custom JavaScript.
- Managed automation solutions across environments, including deployment and versioning.
- Supported testing and created technical documentation to ensure long-term maintainability.

DOGMA Group

08/2022 – 09/2024

Software Developer

United Kingdom

- Designed and delivered end-to-end automations using Microsoft Power Platform to streamline internal business processes.
- Built Power Automate workflows for approvals, notifications, and system synchronization.
- Developed and maintained RESTful APIs to connect applications with CRM and ERP systems.
- Implemented authentication and access control using Azure Active Directory.
- Created backend services and utilities using C#, .NET, SQL, and Go to support automation use cases.

Education

OWL University of Applied Sciences and Arts

10/2024 – Present

Masters in Informatics

University of Wolverhampton

09/2019 – 06/2022

Bachelor of Science in Computer Science

United Kingdom

Projects

Real-Time Traffic Scene Object Detection

- Developed a YOLOv8-based real-time object detection system for vehicles, pedestrians, and traffic lights.
- Trained on a BDD100K subset with diverse weather and lighting conditions.
- Implemented real-time video inference from dashboard camera feeds.

YOLOv8, PyTorch, OpenCV, Python

Jetson Nano Autonomous Lane Keeping System (Master's Coursework)

- Built an end-to-end autonomous lane keeping system using UNet segmentation (~26K images).
- Deployed on a real ROS-based robot powered by NVIDIA Jetson Nano.
- Implemented real-time image preprocessing and a custom PID controller for steering.
- Integrated and tested using ROS 2 with live topics and RViz visualization.

Python, PyTorch, OpenCV, ROS 2, UNet, PID Control, Jetson Nano