RAJATH THALIYADATH

rajatht@icloud.com +61 424 096 055 Sydney, NSW https://portfolio.rajatht.me

Summary

Master's candidate in AI and Software Engineering at Macquarie University with 1.5+ years of industry experience delivering Python/Django solutions and AI-powered applications in cross-functional, client-facing environments. Proven ability to build Retrieval-Augmented Generation (RAG) conversational agents, real-time travel optimizers, and browser automation tools — translating technical concepts into practical business outcomes. Strong communicator and proactive problem-solver with Agile/Scrum experience, seeking to apply analytical thinking and emerging technology expertise to solve complex challenges and drive client success as a Data & AI Consultant.

Professional Experience

Python Developer at QBurst Technologies Pvt Ltd
Aug 2022 – Dec 2023

- Delivered ENLITE, a full-featured hotel booking web application using Python and Django, ensuring outcome ownership by managing stakeholder requirements and providing customer support through rigorous requirement validation and production-ready delivery.
- Designed and built secure REST API modules with authentication, role-based access control, and CRUD workflows using Django REST Framework to support core business operations and data integrity.
- Integrated third-party APIs (booking, payment, mapping) to extend platform functionality, enhancing end-user experience and responding to evolving client and market needs.
- Participated in Agile/Scrum ceremonies including sprint planning, daily standups, and retrospectives, contributing to consistent on-time delivery across development cycles.
- Diagnosed and resolved production issues through structured root-cause analysis, delivering timely fixes to maintain system reliability and client satisfaction.

Education

Master of Information Technology in Artificial Intelligence at Macquarie University
2026-08-06 | North Ryde, Sydney, Australia

Bachelor of Technology in Computer Science at LBS College of Engineering
2018 – 2022 | Kasaragod, India

Certifications

CS50's Introduction to Computer Science at Harvard University

Build REST APIs with Django REST Framework and Python

Supervised Machine Learning: Regression and Classification at Coursera

Advanced Learning Algorithms at Coursera

Unsupervised Learning, Recommenders, Reinforcement Learning at Coursera

Python Mega Course at Udemy

Python Bootcamp from Zero to Hero in Python

Technical Skills

Languages : Python, JavaScript, HTML, CSS
Frameworks : Django, Django REST Framework
AI & Core Technologies : Retrieval-Augmented Generation (RAG), Machine Learning, LSTM, Gradio, Supervised Learning, Unsupervised Learning, Deep Learning, Natural Language Processing (NLP), Time-Series Analysis, Conversational AI
Databases : PostgreSQL

Tools & Platforms : Docker, Git, Selenium, Google Maps API, YouTube API, Chrome Manifest V3, Hugging Face Spaces, Render, Agile / Scrum, REST API Development, Full-Stack Development, Deployment

Projects

Resume AI Agent

– Built a RAG-based conversational assistant utilizing LLM integration to allow users to interactively query resume content through natural language, deployed publicly on Render.

Effortless Commute

– Developed a real-time travel optimizer web application using Django and Google Maps APIs, containerized with Docker, and deployed within scalable cloud data environments for improved performance and data handling.

YouTube Professor

– Built an intelligent knowledge-extraction tool that uses the YouTube API and AI models to enable content-based interaction and automated summarization of video content.

Freebies Locator & Business Invoices Tool

– Executed technical prototyping of two practical utility applications: a local incentive tracker for surfacing nearby free resources, and a high-volume delivery billing tool to streamline business invoicing workflows.

Chrome Extensions: Reading Assistant & Smart Dark Mode Inverter

– Built two browser productivity extensions using Chrome Manifest V3 to improve reading experience and enable intelligent display customization across any web page.

Landslide Prediction Using Machine Learning

– Designed and trained an LSTM-based deep learning model to predict landslide events as a final-year BTech project, applying time-series analysis to environmental sensor data.

Student Management Portal

– Built a full-stack student data management portal utilizing SQL and effective data modeling with Django and PostgreSQL, covering CRUD operations and user authentication.