

OJASWI ATHGHARA

Software Developer | M.Sc. Advanced Data Science and AI

ojaswiat@gmail.com | +44 7587915491 | [LinkedIn/in/ojaswiat](https://www.linkedin.com/in/ojaswiat)

SUMMARY

Collaborative software engineer and M.Sc. candidate experience of working in high-growth environments driving DevOps and AIOps initiatives. Demonstrates strong ownership, attention to detail, and agile team coordination in building automated deployment pipelines, executing root cause analysis, and maintaining scalable cloud infrastructure.

EXPERIENCE

Member of Technical Staff

June 2023 – December 2025

Acalvio Technologies

- Automated AI model deployment across AWS and GCP using Python, Bash, Docker, and Terraform, boosting deployment speed by 20% while establishing repeatable Infrastructure as Code (IaC) pipelines.
- Engineered multi-cloud threat and anomaly detection services across AWS, GCP, and Oracle Cloud, enabling cross-cloud observability within 2 months by deploying scalable REST APIs and cloud-native solutions.
- Optimised system performance by 20% and accelerated root-cause bug analysis by migrating legacy JavaScript/Vue 2 infrastructure to Nuxt 3 with TypeScript and implementing enterprise RBAC/ABAC access controls.

Software Development Engineer 1

June 2022 – March 2023

Vahak

- Migrated frontend platform from React to Next.js, reducing load times by 15% and boosting organic traffic by 30% through Server-Side Rendering (SSR) and SEO optimizations.
- Streamlined application performance and deployment pipelines, delivering a 10% speed gain and seamless production rollouts, by offloading logic to Next.js API routes and migrating infrastructure from AWS to Vercel.

PROJECTS

RAGBench-10K – Dissertation Project

Dissertation project comparing three ways of retrieving information from complex financial documents to see which works best for fact lookup versus multi-step reasoning.

- Exposed retrieval accuracy and failure modes across three RAG architectures, as measured by precision, recall, and citation accuracy over 900 evaluation runs, by benchmarking dense vector embeddings, BM25 keyword search, and hierarchical retrieval against SEC 10-K filings.
- Cut manual evaluation effort while maintaining grading reliability, as measured by an 80%+ human-agreement rate, by engineering an LLM-as-Judge pipeline with adversarial verification, citation, and auditing.

Monitor Tools – Personal Project

Monitor tools is an Agentic AI observability tool using Python, HTML, CSS, JS, and Claude Code that helps agent remember the operations and provides seamless Human-in-the-loop (HITL) interaction with AI coding agents.

- Created plugins, skills and hook-based tools to log, report and manage tasks and built a unified dashboard interface to view logs, reports, and task status for seamless HITL interaction.

Research (Literature Survey) – Research Methods in Computer Science

Literature Survey: Cost-Sensitive Machine Learning in Finance

- Evaluated cost-sensitive ML for fraud detection, demonstrating 23% lower financial loss over standard models, by synthesising Bayes Minimum Risk and Example Dependent frameworks.
- Critiqued imbalance techniques on skewed (<0.2% fraud) benchmarks, identifying SMOTE-augmented gradient boosting as optimal, by benchmarking probability calibration and monetary loss functions.

EDUCATION

M.Sc. Advanced Data Science and AI

January 2026 – January 2027

University of Liverpool, UK

Modules and Core Concepts

Data Mining and Visualisation, Machine Learning and BioInspired Optimisation, Computational Intelligence, Research Methods in Computer Science, Reinforcement Learning, Swarm Intelligence, Agentic AI, LLMs, MLOps

B.E. Computer Science and Engineering (8.6/10)

August 2017 – September 2021

The National Institute of Engineering, Mysore

Modules and Core Concepts

DBMS, Computer Networks & Operating System Concepts, Software Development Lifecycle and Agile Methods, Machine Learning, Deep Learning Concepts and Projects.

SKILLS

DevOps & Cloud

AWS: IAM, EC2, S3 Buckets, CloudWatch, CloudTrails, Firewall, Policies, CloudFormation

GCP: Compute Instances, IP Management, Artifact/Docker Registry, Firewall Rules, SSH

Terraform, Infrastructure as Code (IaC), Docker Compose, Jenkins, Docker, Vercel

Programming Languages & Development

Python, SQL, Bash, JavaScript, TypeScript, CSS, HTML

Machine Learning & Data

Big Data, Machine Learning, Model Evaluation, Scalability, Dimensionality Reduction, Machine Learning Algorithms, AI Personalisation, Applied Machine Learning, Natural Language Processing, Unsupervised Learning, Model Optimisation, Regression Analysis

CERTIFICATES

Machine Learning, Stanford Online (93.62%)

April 2019 – December 2027

Coursera

LANGUAGES

English – Fluent, Hindi – Native