

KANISHK MITTAL

Backend Engineer | Go • Python • PostgreSQL • Kubernetes

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EXPERIENCE

Software Developer I – DailyPay, Belfast

Jul 2025 – Present

- ▶ Led integration of Amplitude analytics platform into Kafka-based event-driven communications system handling **30M+ events/month**
- ▶ Owned end-to-end delivery: budget planning, task breakdown, technical investigation, and implementation following senior departure

Technologies: Go, Kafka, PostgreSQL, Terraform

Data Engineer (Placement) – DailyPay, Belfast

Sep 2023 – Aug 2024

- ▶ Contributed to migration of Ruby monolith → Go-based service-oriented architecture with founding Data Platform team
- ▶ Designed and shipped ETL pipelines (v1-v3) for Gross Earnings and Available Balance using Go, PostgreSQL, Docker, AWS
- ▶ Implemented multi-currency API support enabling company's **international expansion to Canada**
- ▶ Built reusable internal libraries (daily-go) and automation tooling, improving system efficiency by **18%**
- ▶ Created CI/CD pipelines with GitHub Actions; wrote Linux scripts for PostgreSQL cron job scheduling
- ▶ **Hackathon Winner (£500)** : Led 3-person team to build AR-based customer onboarding prototype; recognized by CEO

EDUCATION

B.Eng. Computer Systems Engineering – Brunel University, London

Sep 2021 – Jun 2025

🏆 First Class Honours | Graham Hawke Award – Best Final Year Project in EEE

Dissertation: Knowledge Graph-Augmented LLMs for Patent Analysis

PROJECTS

VR Business Card App

[Video Demo →](#)

- ▶ Built AR/VR business card iOS app with OAuth authentication using Viro React and Xcode
- ▶ Led 3-person team at DailyPay Hackathon; awarded £500 and recognized by CEO for innovation

Patent Knowledge Graph

[Video Demo →](#)

- ▶ Scraping + NLP pipeline to map chemical patent relationships and identify compound overlaps
- ▶ Semantic search via vector embeddings + graph traversal using Python, Scrapy, Neo4j, LLMs

Bare Metal Kubernetes Cluster

[Video Demo →](#)

- ▶ Built 4-node K8s cluster (3x Raspberry Pi + custom CPU) with Helm, k9s, nginx load balancing, 1.2TB NAS
- ▶ Automated deployments with reusable manifests; tunneling via ngrok, firewall via Ginet

SKILLS

Languages Go Python JavaScript SQL Bash

Infrastructure Docker Kubernetes Terraform AWS GitHub Actions Kafka Prometheus

Databases PostgreSQL Neo4j Snowflake

Other Agile/Kanban JIRA TensorFlow LLM Fine-tuning LeetCode 150+