# Nikhil Gorrepati

nikhilreddy.gorrepati@gmail.com | +44 7894 420 405 | linkedin.com/in/nikhilrgorrepati | nikhil.gorrepati.dev

## PROFILE

Software engineer at Wowcher, building sales automation that helps bring in new merchants and improving the features and services that shape the customer experience across its e-commerce platform. I enjoy understanding the business problem, owning the implementation, and seeing whether the result helps customers or colleagues. I want to take on larger product problems, from the first conversation through release and measurement.

## PROFESSIONAL EXPERIENCE

**Software Engineer, Wowcher** 2026 - Present

- Built PitchPerfect, a sales automation tool that finds and researches potential merchants, prepares outreach for review, and tracks HubSpot campaigns and follow-ups. It reduces manual prospecting work and helps Wowcher bring in new business.
- Implemented the merchant research and campaign workflows across a Go API and background worker, React/TypeScript frontend, and MySQL database, with Google Places, OpenAI, and HubSpot integrations.
- Built and A/B tested improvements to Wowcher's deal pages and checkout, using customer behaviour and purchase data to improve the buying experience and contribute to revenue growth.
- Improved checkout gifting by making the gift choice explicit. Completed gift purchases rose by approximately 65%, contributing to higher revenue.

**AI/ML Intern, Ctruh** June - July 2025

- Built and deployed a PyTorch and OpenCV model to detect and classify facial blemishes using a custom dataset of more than 5,000 images.
- Tracked experiments and tuned model parameters in Weights & Biases while comparing TensorFlow/Keras and PyTorch approaches; connected detections to rule-based skincare recommendations.
- Built a real-time AR jewellery try-on using MediaPipe facial landmarks and an in-house renderer that positions and orients 2D assets on a live mobile camera feed.

## TECHNICAL SKILLS

**Languages** Go, Python, Java, TypeScript, JavaScript, SQL, C/C++

**Application development** React, Vite, FastAPI, REST APIs, WebSockets, AsyncIO

**Data and AI** MySQL, SQLite, MongoDB, Redis, PyTorch, OpenCV, MediaPipe

**Experimentation** A/B testing, Adobe Analytics, Redshift SQL

**Cloud and delivery** Docker, Azure App Service, Azure Container Registry, GitHub Actions, Cloudflare Pages

## PROJECTS

**TuneQuest, multiplayer music platform** Python, Vue.js, Azure

- Architected real-time state synchronisation for concurrent players using WebSockets and AsyncIO, with sub-100ms latency on Azure App Service.
- Built an automated deployment pipeline using GitHub Actions and Azure Container Registry, reducing deployment time to 51 seconds with container rollouts.
- Added JWT authentication, Redis caching and Azure Blob Storage for media streaming.

**Distributed file system** Java, TCP/IP sockets

- Developed a distributed storage system from scratch with R-way replication and dynamic data rebalancing so reads and writes survive node failure.
- Handled simultaneous uploads and downloads with Java sockets and concurrent client processing.

**Smart Kitchen and Meal Planner** React, TypeScript, Convex

- Built a reactive application that synchronises pantry inventory and meal plans across devices without manual refresh.
- Implemented cooking workflows that deduct ingredients from stock and generate shopping lists for missing items.
- Designed a mobile-first interface and used the Screen Wake Lock API to keep recipes visible while cooking.

## EDUCATION

**BSc Computer Science, University of Southampton** 2023 - 2026

2:1 (Upper Second Class Honours)

**Relevant study** Distributed Systems, Cloud Application Development, Machine Learning, Intelligent Systems

**Tiffin School, Kingston upon Thames** 2019 - 2021

A levels: Mathematics A*, Further Mathematics A*, Chemistry A, Physics A

## LEADERSHIP AND ACTIVITIES

**Computer Science Lead, Southampton MedTech Society** July 2025 - June 2026

- Designed and built the society website with Astro and Tailwind CSS on Cloudflare Pages to support events, membership and sponsor enquiries.
- Co-organised a MedTech hackathon, coordinating students, sponsors, staff and industry judges.