
RISHI OBEROI

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PROFESSIONAL SUMMARY

A highly skilled professional with expertise in AI & LLM orchestration, React, TypeScript, and Python. Demonstrates proficiency in NestJS, LangChain, Cosmos DB, and Redis, alongside a solid understanding of the NET framework. Adept at system debugging and Node.js competency, with a strong grasp of RESTful services and Kubernetes. Possesses comprehensive knowledge of DevOps principles and excels in back-end development. Skilled in user interface design, algorithm creation, and data structure conception. Known for efficiency in cross-browser compatibility and Git version control. Familiar with MVC architecture and cloud services usage. Exhibits prowess in front-end development while maintaining a proactive initiative-taking approach. Committed to web security principles with a result-driven mindset that fosters innovation.

WORK HISTORY

Azure Full-Stack Engineer, 05/2024 - current

Voice Secure Global - Glasgow, United Kingdom

- Architected Microsoft-approved, three-layer cloud-based Fintech SaaS applications deployed on Azure Static Web Apps and listed on the Azure Marketplace. Integrated React, Vite, NestJS, Azure Cognitive Services, Cosmos DB, Blob Storage, and Redis Cache. Built modular RESTful APIs with dependency injection, validation, consistent exception handling, and Redux-driven front-end components with persistent state and AI context rendering. Engineered LangChain orchestration pipelines using `@nestjs/schedule` with secure configuration preloading from Azure Key Vault.
- Developed secure CRUD APIs for tiered monetisation using Cosmos DB and Stripe webhooks. Deployed Dockerized NestJS services to Azure App Service via ACR and configured production variables using `az webapp config`. Monitored Redis-backed Bull queues, resolved stalled jobs, and scheduled background workers with `node-cron`. Performed HAR and Wireshark diagnostics to trace CORS issues, API failures, and cross-environment routing behaviour.
- Built LLM orchestration pipelines using Azure OpenAI and LangChain, integrating RAG-style context injection, multi-tool function calling, token budgeting, and structured output validation using stock, crypto, and live finance news feeds as context inputs. Developed supporting FastAPI microservices consumed by NestJS for real-time intelligent features. Delivered deterministic AI chains for financial insights with AzureChatOpenAI, prompt templates, and latency optimisation across Azure OpenAI, Cognitive Services, and App Service layers.
- Established Azure Cloud Security governance across App Services and Containers with SIEM-integrated alerting aligned to ISO 27001 controls and UK Cyber Essentials guidelines. Enforced HTTPS-only transport, TLS-secured endpoints, and full DNS ownership verification using A, TXT, and CNAME records for secure domain control and certificate validation. Integrated Microsoft Graph API via `MSAL.js` for secure profile syncing. Applied npm dependency signature verification and manual patch validation in secure build pipelines to preserve system integrity.
- Implemented secure authentication with Azure Entra ID B2C for Google, Meta, and email login. Applied password hashing, token validation, and RBAC with Cosmos DB and Blob Storage backing identity data and assets. Configured secure Axios clients with TLS-encrypted API transactions to safeguard user data during client-server communication.
- Streamed authenticated stock and cryptocurrency financial market data through validated Axios requests. Managed Redis cache persistence with Bull processors for real-time performance. Built Cosmos DB aggregation pipelines merging user metrics with live market data. Integrated secure webhooks for external feeds and scheduled background refresh routines using `node-cron`.

- Converted high-fidelity Figma designs into responsive React + TypeScript components using Tailwind and Vite aliasing. Integrated Azure OpenAI for real-time conversational AI and financial intelligence through secure REST APIs. Configured environment-based Axios authentication for GPT request flows, token renewal, and robust error handling across development and production environments. Built Redux Toolkit async thunks with optimistic updates, pagination merging, and persistent local storage to deliver a seamless, responsive SaaS interface.
- Delivered stakeholder demonstrations using structured Agile reporting. Managed CI/CD pipelines across GitHub Actions and Azure DevOps with synchronized container releases and optimized build cadence to reduce redundant triggers and lower Azure spend. Re-tiered Azure Redis Cache and Cognitive Service SKUs to match user concurrency and reduce cost without latency impact. Mentored junior developers on CI/CD workflow design, environment management, and caching strategies. Integrated GTM, Meta Pixel, and Microsoft Clarity for analytics and user-journey optimisation, maintaining disciplined PR workflows aligned with Microsoft ISV Success standards.

Windows 11 Deployment Engineer, 11/2023 - 04/2024

NHS Greater Glasgow and Clyde - Glasgow, United Kingdom

- Deployed secure Windows 11 workstations using SCCM and Active Directory, configuring GPOs and AD group structures to enforce organisational security baselines, compliance policies, and least-privilege access. Maintained enterprise-grade security aligned with NHS governance, ISO 27001 control requirements, and UK Cyber Essentials standards. Remediated endpoint vulnerabilities identified through advanced security telemetry and applied hardened configuration baselines to enhance system resilience. Automated disk imaging, provisioning, and BIOS updates with PowerShell and CLI tooling to accelerate field deployments. Supported clinicians and diagnostic teams by configuring specialised medical software and hardware integrations, including imaging and ultrasound systems within the Diagnostic Imaging Pillar, ensuring reliable operation on secured Windows 11 endpoints. Maintained enterprise endpoint protection posture by analysing security alerts, isolating compromised hosts, and applying real-time containment and remediation policies across distributed clinical workstations. Hardened industrial routers by disabling unused services, implementing SSH key-based authentication, enforcing account lockout rules, updating firmware, and applying restrictive firewall configurations to support secure remote access. Secured HL7 and FHIR clinical data by enforcing healthcare-compliant access controls, validating payload integrity, and ensuring safe handling within interoperability workflows.

Generative AI Engineer, 07/2022 - 10/2023

Tekbo - Clydebank, United Kingdom

- Developed automation tools and AI-driven modular subassembly catalogues for commercial vehicle chassis, Sprinter and freight carrier models using SolidWorks and DriveWorks C++, enabling scalable part reuse and rapid design customisation. Integrated generative AI with SolidWorks to optimise modular 3D component geometries (bulkheads, roofs, gantries, and sideframes) by automating FEA workflows in Python (NumPy/SciPy), extracting stress and deflection KPIs, and performing constrained parametric optimisation to improve stiffness-to-weight ratios and manufacturability targets. Embedded AI-powered logic into BOM generation and linked it with ProgressPlus to support real-time part tracking, structural validation, and higher modular design efficiency across CAD-to-manufacture workflows. Developed IoT-enabled embedded electronic subsystems for commercial vehicle builds, including gantry lighting, load-bay lighting, auxiliary control circuits and sensor wiring, using C++ and microcontroller-based development workflows.

Mathematics Tutor, 12/2019 - 06/2022

Tutorful - Glasgow, United Kingdom

Software Quality Assurance Engineer, 04/2018 - 11/2019

Pole To Win - Glasgow, United Kingdom

SKILLS

- AI & LLM Orchestration
- React
- TypeScript
- Python
- NestJS
- LangChain
- Cosmos DB
- Redis
- NET framework familiarity
- System debugging competency
- Node.Js competency
- RESTful services understanding
- Kubernetes understanding
- DevOps principles knowledge
- DevOps principles familiarity
- User interface design
- Algorithms creation
- Data structures conception
- Backend development techniques
- Efficiency in cross-browser compatibility
- Git version control efficiency
- Knowledge of mvc architecture
- Cloud services usage
- Front-End development prowess
- Proactive initiative taker
- Web security principles comprehension
- Result-Driven approach
- Innovative mindset

EDUCATION

Diploma of Higher Education: Technological Education, 08/2019 - 08/2021
University of Glasgow - Glasgow, United Kingdom

Certificate of Higher Education: Computer Games Design, 08/2017 - 08/2018
Glasgow Caledonian University - Glasgow, United Kingdom

CERTIFICATIONS

- SEC401, Security Essentials - Network, Endpoint, and Cloud (AWS & Azure) SANS Institute Issued: August 2023 (Certificate of Completion)
- SEC275, Security Foundations - Computers, Technology, and Security SANS Institute Issued: September 2023 (Certificate of Completion)

LANGUAGES

English (Fluent):
Spanish (Intermediate):

German (Fluent):
Hindi (Beginner):

WORKSTATION

- NVIDIA GeForce GTX 1080 Ti
- Intel i7-7700K CPU @ 4.2 GHz
- 32 GB DDR4 RAM
- 800 Mbps Upload
- 70 Mbps Download
- Kaspersky Premium
- HD Video & Audio
- Reliable Availability

CLEARANCES & CHECKS

- Right to Work in the UK (European Settlement Scheme) and EU (German Passport)
- Enhanced DBS Certificate
- Eligible for Security Check (SC) Clearance
- Driving License

REFERENCES

References available upon request.