

ZUHAIR MALIK

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PROFESSIONAL SUMMARY

Professional software engineer with hands-on experience building and maintaining cloud-native, distributed systems at scale. Skilled in developing and operating high-availability platforms, automating infrastructure, and applying distributed systems principles to complex services such as Azure Kubernetes Service.

WORK EXPERIENCE

Software Engineer | Microsoft

Dec 2025 - Present

Engineer on Azure Kubernetes Service

Go | Azure | Distributed Systems

- **Platform Development:** Contributed to the core AKS service, enabling managed Kubernetes clusters at scale for enterprise customers.
- **Scalability & Reliability:** Worked on multi-tenant orchestration, autoscaling, and high availability of clusters across regions.
- **Security & Compliance:** Implemented RBAC, network policies, and platform-level security features to ensure tenant isolation and compliance.
- **Automation & Observability:** Built and maintained automated deployment pipelines, monitoring, and alerting systems for platform health and performance.
- **Cloud-Native Engineering:** Applied distributed systems principles to design and maintain critical infrastructure services, including the control plane, networking, and storage integrations.

Software Engineer | AI Consulting Group

Feb 2025 - Nov 2025

Full-Stack Engineer & Technical Lead

TypeScript | Node.js | AWS/Azure

- **Architected and deployed production-ready Agentic AI applications** by prototyping multi-agent workflows in exploratory phases and leading full-stack development through to deployment on AWS/Azure.
- **Engineered sophisticated multi-agent systems** using AI-SDK and TypeScript, implementing structured outputs with Zod schemas for validated object creation, alongside robust retry and fallback mechanisms for reliable workflow execution.
- **Designed a custom hybrid retrieval methodology** featuring tailored chunking and retrieval strategies to optimize context quality for AI agents, significantly improving response accuracy for client-specific use cases.
- **Built high-performance, scalable backends** used Node.js/Bun to run and host agentic AI components, providing fine-grained control over reasoning loops and automation pipelines.
- **Led a full-stack engineering team**, mentoring on cloud-native AI development best practices and managing CI/CD (GitHub Actions) to ensure rapid, reliable delivery of AI-driven products.

TECHNICAL SKILLS

Languages | Go, Typescript

Frontend | Next.js, Vite, Tailwind

Backend | Go, Node.js/Express.js, Hono, Elysia

Database | PostgreSQL, NoSQL (MongoDB), VectorDB (Qdrant, Pinecone)

DevOps | Azure, AWS, Docker, Kubernetes

EDUCATION

University of Technology Sydney - Bachelor of Computing Science (Honours)