

Karanvir Singh Ghumaan

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Full-stack engineer and technical entrepreneur specializing in cloud automation, AI-powered applications, and scalable infrastructure. 6+ years building secure enterprise platforms and leading technical initiatives. Passionate about learning emerging technologies and delivering high-impact solutions.

TECHNICAL SKILLS

Cloud & Infrastructure: Azure (Functions, CosmosDB, App Insights, Event Hubs, AI Services, Blob Storage), Docker, AKS, Helm
IaC & DevOps: Azure DevOps, Bicep, Terraform, GitHub Actions, Vercel, YAML pipelines, Bash/PowerShell
Languages & Frameworks: Python (10+ years), JavaScript, React Native, Swift
Databases: MongoDB, SQL Server, Redis, Pinecone
AI/ML: Azure OpenAI, Azure AI Services, OpenAI/Anthropic/Gemini API
Testing & Monitoring: pytest, Jest, Azure App Insights, ELK Stack, Grafana, test-driven development
Data Engineering: Azure Data Factory, Event Hubs, PowerBI

PROFESSIONAL EXPERIENCE

Perella Weinberg Partners, Los Angeles, CA

July 2024 – November 2025

Director, DevOps Engineer

- Architected "Nexus", an end-to-end identity lifecycle platform automating employee onboarding/offboarding, eliminating a proposed \$500K/18-month external project and delivering complete solution in 6 months with compliance-mandated 24-hour SLAs.
- Built secure Azure infrastructure integrating Workday, Active Directory, and Entra ID using Functions, Cosmos DB, Event Hubs, and service-based auth with zero internet exposure, collaborating with network security teams daily.
- Engineered "TeamsGPT", self-hosted Azure AI chatbot achieving 80% user adoption with hundreds of daily conversations, maintaining all data within security perimeter using Cosmos DB and Redis.
- Partnered with SOX auditors and Big 4 consulting firms to ensure automation met regulatory compliance, maintaining detailed audit trails and comprehensive test suites as CI/CD deployment gates.

Ares Management, Los Angeles, CA

July 2019 – July 2024

Senior Engineer, DevOps

- Spearheaded "Ares-Middleware", Python-based automation platform hosting thousands of integrations across HR, Financial Systems, and Investment teams, leading a team of 4 engineers.
- Migrated platform from on-premises to Azure Kubernetes Service, achieving 90% reduction in downtime, 2x deployment speed, and enhanced monitoring capabilities using Helm charts and container orchestration.
- Built data lake with Azure Data Factory and Event Hubs ingesting gigabytes of daily data from corporate applications, enabling PowerBI dashboards for executive insights.
- Adopted Terraform and Bicep for IaC, optimizing CI/CD and establishing GitOps workflows across environments.

General Motors, Austin, TX

August 2018 – July 2019

Software Engineer

- Developed 3D vehicle configuration web application for 2020 Corvette Z06, enhancing digital shopping experience and driving online sales.
- Engineered backend Java services and implemented WebSockets with Redis for secure, real-time user interactions.
- Authored Node.js scripts for comprehensive API stress testing, identifying and resolving performance bottlenecks.

CURRENT PROJECTS

Phera | Destination wedding automation platform with AI-powered guest support via WhatsApp API integration

Sauna Social | Digital booking system for mobile sauna services using React Native and Azure Functions

Papo | React Native mobile app simplifying podcast recording without professional equipment

EDUCATION

Indiana University, Bloomington, IN

August 2018

Bachelor of Science in Informatics | Minors: *Computer Science, Entrepreneurship & Small Business Management*

LEADERSHIP

Founded BridgehaCS hackathon (100+ students from MIT, Harvard, Brown, Cornell), crowdfunded \$10K with Microsoft and Twilio sponsorships. Active in multiple Startup Weekend events, developing MVPs and pitching to investors.