Kunal Dugar

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Education

Birla Institute of Technology and Science, Pilani   Oct 2022 – May 2027
Dual Degree: Master of Science + Bachelor of Engineering

Experience

Software Engineer Intern | Google Summer of Code, Kubeflow – Remote   Jun 2025 - Oct 2025

- Developed production-grade Helm charts for 5 core Kubeflow components, enabling flexible one-command deployment of ML infrastructure and reducinreducing setup time by 80% for enterprise teams
- Designed and implemented end-to-end testing infrastructure for full Kubeflow AI reference paltform, automating integration tests across multiple components and improving development workflow efficiency
- Created automated diff validation system to maintain 100% parity between Helm and Kustomize deployments across 50+ scenarios, ensuring reliability and catching configuration drift early

Software Engineer Mentee | Linux Foundation, Cloud Native Computing Foundation (CNCF), –   Mar 2025 - May 2025
Remote

- Contributed 40+ merged pull requests to Kubestellar organization, significantly enhancing project functionality and user experience
- Developed end-to-end Binding Policy and automated cluster onboarding features in Kubestellar UI with intuitive drag-and-drop interface
- Mastered GitOps practices using Argo CD for declarative continuous delivery and leveraged Helm for package management across different clusters. Gained expertise in multi-cluster workload assignment and management within Kubernetes environments

Frontend Developer Intern | EightGen AI (now juststock.ai) – Remote   Dec 2024 - Feb 2025

- Developed complete frontend architecture for stock analysis web application using React and TypeScript. Built comprehensive stock dashboard with CoPilot integration for automated annual report analysis
- Implemented responsive design using Shadcn UI components delivering seamless user experience with real-time data visualization. Collaborated with the backend team to integrate APIs and ensure optimal application performance

Projects

BeatWave - Music Streaming Platform   Dec 2024

- Developed full-stack music streaming web application with seamless playback experience and user-friendly interface
- Integrated a real-time chat functionality using WebSockets enabling social interaction between users during music sessions
- Deployed application using Docker containerization and Kubernetes orchestration ensuring scalability and reliability.Utilized Helm for package management and Argo CD for continuous deployment automating CI/CD pipeline
- Technologies: Express.js, TypeScript, React.js, WebSocket, Docker, Kubernetes, Helm, Argo CD, Clerk Authentication

Twitter Clone - Social Media Platform   Jul 2024

- Built comprehensive Twitter clone using MERN stack implementing core features including user authentication, post creation, and real-time updates
- Designed and deployed RESTful APIs with Node.js and Express.js utilizing React, Material-UI, and React Query for responsive modern UI
- Integrated JWT authentication and Cloudinary media storage with MongoDB data management
- Technologies: Express.js, Node.js, MongoDB, Docker, Kubernetes, React.js, Material-UI, React Query, Tailwind CSS

Skills

Languages: C++, C, JavaScript, TypeScript, Go, Rust
Frontend: React.js, Next.js, Tailwind CSS, Shadcn UI, Tanstack Query
Backend: Node.js, Express.js, REST API, WebSockets, PostgreSQL, MongoDB, Redis, Prisma
DevOps & Cloud: Docker, Kubernetes, Helm, Argo CD, CI/CD, Github Actions.