Vasudev Kishor

Portfolio | LinkedIn | Github

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ABOUT ME

Full-stack Software Engineer focused on building robust web applications and high-performance system architectures. Experienced in delivering 15+ production-grade applications for global clients.

EXPERIENCE

Freelancer — Remote
Full Stack Developer — *October 2024 – Present*

- Engineered 15+ production-ready applications for global clients, handling end-to-end system design, schema optimization, and multi-tenant infrastructure.
- Built scalable RESTful APIs with JWT/OAuth2 flows; optimized PostgreSQL performance and utilized Redis for distributed state management.
- **Tech Stack:** React, Next.js, Node.js, Go, Flask, PostgreSQL, Redis, Docker, GitHub Actions, AWS

Triassic Solutions — Thiruvananthapuram, Kerala
Intern — *April 2024 – June 2024*

- Optimized Flask backend services via SQLAlchemy query refactoring and database indexing, achieving a 30% reduction in API response latency.
- ncreased unit test coverage by 40% and resolved 20+ critical backend bugs, significantly reducing production regressions.
- Streamlined release cycles by automating CI/CD pipelines with Docker and GitHub Actions, cutting manual deployment time by 2 hours per sprint.

EDUCATION

Amrita Vishwa Vidyapeetham — Coimbatore, Tamil Nadu
B.Tech in Computer Science Engineering — *August 2023 – July 2027*

SIGNIFICANT PROJECTS

MaxProfit - Enterprise Profitability & Forecasting Engine

- Architected a multi-tenant SaaS platform for real-time financial tracking and 'what-if' forecasting for a global tech company.
- Engineered an asynchronous pipeline using **Celery and Redis** to maintain sub-5s reporting latency for 50k+ monthly allocations.
- Implemented granular RBAC and data isolation protocols to ensure secure multi-tenancy.
- **Tech:** React, Flask, PostgreSQL, SQLAlchemy, Celery, Redis, Docker

Arkive – Secure Personal File Vault

- Developed a zero-trust storage vault with a Go backend and React Native CLI for secure, cross-platform file management.
- Engineered an AES-256-GCM encryption layer with client-side key management, ensuring full data opacity to cloud providers.
- Optimized local decryption routines to maintain sub-200ms file viewing performance.
- **Tech:** Go (Golang), React Native, TypeScript, AES-256-GCM, Google Drive API

ECG-Based Clinical Decision Support (Research)

- Benchmarked 6 DL architectures on the PTB-XL dataset (21k+ records), achieving 74.62% accuracy via TCNs.
- Designed 'TinyECGCNN', an ultra-lightweight 0.05M parameter model optimized for edge deployment on low-power devices.
- Achieved a minimal 0.0123 Expected Calibration Error to ensure high predictive confidence.
- **Tech:** PyTorch, TCN, ResNet-1D, U-Net-1D, TinyECGCNN, Edge AI

SKILLS

- **Languages**: JavaScript, Python, C, C++, Golang, Java, SQL, Dart

- **Frameworks & Runtimes**: React.js, Node.js, Next.js, Vue.js, Django, Flask, React Native, Flutter, Supabase

- **Cloud & Infrastructure**: AWS, Docker, Redis, Celery, Git, Linux

- **Databases**: PostgreSQL, MongoDB

- **Core CS Concepts**: Data Structures (DSA), Design & Analysis of Algorithms (DAA), Object-Oriented Programming (OOPs), Functional Programming, System Design

AREAS OF INTEREST

- Full Stack Development, Edge Computing