Kunal Ghosh

kunalghosh.res@gmail.com | kunal.wiki | linkedin.com/in/kunalghosh02 | github.com/kunalghosh02

WORK EXPERIENCE

Hunch (Somish Solutions Limited) New Delhi
Software Engineer II *Jan. 2024 – Present*

- Launched Hunch Dating, achieving **$1200 MRR** in the first month while ensuring **99.9% uptime** through scalable multi-region deployment and automated data replication to handle traffic growth.
- Spearheaded the migration of services from **Firestore** to **PostgreSQL**, ensuring data consistency, improving security and **zero downtime** during production rollouts.
- Containerized backend services using **Docker and Kubernetes**, enabling horizontal scaling and efficient resource utilization.
- Developed **OpenSearch** integrations to enable high-speed, scalable text search functionality, improving search performance and relevance, and **reduced latency to <100ms**.
- Integrated **AWS Rekognition** for real-time face verification, age detection, and fraud prevention, enhancing security and reducing fraud rates.
- Optimized costs and streamlined infrastructure by minimizing database queries and implemented caching using **AWS Elasticache (redis)**, thereby **reducing monthly expenses by over $3,000.**
- Enhanced observability in a micro-services architecture by integrating **Grafana and Prometheus alongside New Relic**, improving system monitoring and reducing issue resolution time.
- Developed a content recommendation system using **AWS Neptune** (graph database), improving **D1 user retention by 15%.**

Jai Kisan (Greenizon Agritech Consultancy Pvt Ltd.) Bengaluru, KA
Software Development Engineer II *Oct. 2021 – Jan. 2024*

- Engineered an application for farmers using **Flutter** and **Node.js** for KYC, credit line activation, repayments, and configurable UI elements using remote config.
- Created API for ledger feature in the KhetiKhata app using **Golang**.
- Revamped Check Eligibility website with **Angular** and **Node.js**, enhancing loan eligibility checks for farmers on 3G+ networks and **improving conversion rates by 70%**. Scaled to accommodate over **2 million users, handling over 1000 concurrent users**.
- Spearheaded A/B testing implementation using **Unleash (A/B testing framework)**, **achieving a 40% increase in conversion rates**.
- Converted the POS BNPL Loan SDK from **Flutter** to **Angular**, **reducing bundle size by 90%** and improving loan booking speeds by 110%.
- Constructed an internal support dashboard for BharatKhata using **Angular and Node.js**, replacing email support and reducing the Turnaround Time (TAT) from 48 hours to 8 hours.
- Implemented a microservice-based BNPL (Buy Now Pay Later) repayment system using **Node.js**, **Express**, and **MongoDB**, collecting **60Cr INR within 8 months** with payment gateway integration, SMS alerts, invoicing and fault tolerance mechanisms.
- Collaborated with a team to develop new features in the BharatKhata Flutter Mobile App, achieving **500K Play Store downloads**.
- Guided and mentored three junior developers, successfully delivering over four projects using Agile methodologies.

Street Compounding Technologies Pvt. Ltd. Remote
Associate Technical Lead *Aug. 2021 – Oct. 2021*

- Directed a team to transform the MVP into a fully-fledged application using **React** and **Node.js**, achieving **10k users and 50k Play Store downloads**.
- Automated deployments in **AWS** using **GitHub Actions**, **saving 8 hours per week**.
- Added features to the MyBiz App using **Flutter, Node.js** and **Express**, building APIs and integrating them with frontend designs.
- Managed the development lifecycle of a **Next.js** web storefront, facilitating the **onboarding of 3,000 stores**.
- Optimized cloud infrastructure using **AWS** services, achieving **80% performance boosts** through API restructuring.

EDUCATION

Amity University Online
Bachelor of Computer Applications & Data Analytics *Jul. 2023 – Present*

TECHNICAL SKILLS

Programming Languages & Frameworks: JavaScript (ES5/ES6+), TypeScript. Python, Java, Node.js, Express.js, Go, Gin, Dart, C++
Frontend: Flutter, Angular, RxJS, NgRX, React/Next.js, Redux, HTML, CSS
API Technologies: GraphQL, REST
Databases: PostgreSQL, MongoDB, DynamoDB, Firebase
Cloud Platforms & Services: AWS, Azure, Google Cloud Platform (GCP)
Certifications: Udacity C++ Developer Nanodegree graduation.udacity.com/confirm/UPPAHKUU