

Gokul Kannan R

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Experience

Oracle, Bengaluru

May 2025 – Present

Member of Technical Staff

Bengaluru, Karnataka

- Developed and maintained reusable Preact/React components and templates for the internal OCI frontend framework, standardizing design patterns for **100+ global cloud services**. Won the **spot award** for my contributions.
- Collaborated on internal framework enhancements to reduce technical debt and improve the developer experience (DX) for internal teams migrating to **standardized OCI patterns**.
- Developed and deployed multiple pages for **FastConnect service in OCI**, implementing **complex frontend workflows** using Oracle's internal framework which I developed.

BlueStone Jewellery and Lifestyle

June 2023 – May 2025

Software Engineer

Bengaluru, Karnataka

- Rewrote the frontend for **Billing software** used in the stores to **React** which will improve the **user experience** at stores and reduce the workload on salesperson simultaneously. The goal is to increase the sales by **30-40 percent**.
- Optimized the deployment process for POS app which resulted in **50% reduced costs** and **80% reduced load times**.
- Developed a project that aims to improve customer experience in stores by using **RFID** for scanning products.
- Wrote build and deploy bash scripts for the project and deployed it to the **AWS** and working on **CI/CD** using Jenkins.

Education

Indian Institute of Technology, Hyderabad

July. 2019 – May 2023

Bachelor of Technology in Computer Science and Engineering

Hyderabad, Telengana

Projects

On-the-Go | Go, Docker, HTMX, SQL, Tailwind CSS, Git

- Engineered a **custom CI/CD orchestration engine in Go** that automates the lifecycle of personal projects by triggering builds and deployments upon **GitHub commits**.
- Integrated **Docker** for containerized deployments, implementing **automated image building and container orchestration** to ensure isolated and reproducible environments across a VPS.
- Architected **real-time status updates** via **Server-Sent Events (SSE)**, enabling the UI to stream live build logs and deployment progress directly from the Go backend.

Gen-UI Personal Tracker App | Next.JS, Claude, Typescript, Tailwind CSS, PostgreSQL

- Developed a personal tracking app using Next JS powered by **Claude** to track the user's various activities like workouts, projects, calories, etc. Implemented **authentication** from scratch for this app.
- Gave the LLM various **tools** related to projects, workouts, database so when the user asks about anything, they get a UI based on what they are looking for (**Generative UI**).
- Deployed and optimized the application for web, ensuring **fast load times** and a **responsive design** across devices.

Implementing Better RDT over UDP than TCP | UDP, Computer Networks, Python

- Developed a custom Reliable Data Transfer (RDT) protocol over **UDP** with advanced features, including **packet loss detection, acknowledgment, checksum-based corruption detection, and packet retransmission**.
- Achieved up to **3.4x higher throughput** than TCP under simulated network delay and packet loss, demonstrating significantly improved reliability and performance. Verified there was no packet loss using the **diff** command.
- Implemented **multithreaded** data handling for parallel data transmission and acknowledgment, enhancing overall data transfer efficiency. And used network analysis tools such as **Wireshark** and **tc** to simulate network conditions and validate data transfer accuracy, providing comprehensive performance insights.

Relevant Coursework

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|-------------------|-----------------------|-------------------------|--------------------|
| • Data Structures | • Database Management | • Computer Networks | • Machine Learning |
| • Algorithms | • Operating Systems | • Computer Architecture | • Compilers |

Technical Skills

Languages: Go, TypeScript, JavaScript, Python, C, C++, Java, SQL, HTML/CSS

Frameworks & Libraries: React, Next.js, Preact, Node.js, Spring Boot, Django, HTMX, Tailwind CSS

Tools & Infra: Docker, AWS, Jenkins, Linux, Git, PostgreSQL, MongoDB, NeoVIM