

# Prakhar Shukla

Portfolio: prakhar.codes

Github: [github.com/imprakharshukla](https://github.com/imprakharshukla)

Email: [imprakharshukla@gmail.com](mailto:imprakharshukla@gmail.com)

Mobile: +91-9936301367

## EDUCATION

- **Galgotias College Of Engineering and Technology** Noida, India  
*B.Tech in Computer Science and Artificial Intelligence; GPA: 8.2* 2021 - 2025
- **Spring Dale College** Lucknow, India  
*10+2; GPA: 8.0* April 2019 - April 2020

## SKILLS SUMMARY

- **Languages:** JavaScript, TypeScript, Kotlin, Python, Golang, Java, C++
- **Frameworks:** React, NextJS, ExpressJS, React Native, NuxtJS, VueJS, TailwindCSS, Ts-Rest
- **Tools:** Docker, Git, PostgreSQL, MySQL, SQLite, Firebase, Redis, Cypress, Jest, Android Studio

## EXPERIENCE

- **Software Engineering Intern - CaseCraft (NUS Singapore)** Closed Beta  
*Full-Stack Development & AI Integration* July-Oct 2024
  - **Frontend Development:** Engineered the entire frontend using *React* with *Tanstack Router*, styled with *TailwindCSS*, resulting in a responsive and intuitive user interface. Significantly enhanced the design and user experience for educators and students.
  - **Backend Architecture:** Developed a comprehensive backend using *TypeScript* and *Ts-Rest*, implementing robust authentication and achieving *end-to-end type safety*. Migrated the entire application to *PostgreSQL*, utilizing auto-generated *Zod schemas* for complete type safety.
  - **Codebase Optimization:** Led the migration from JavaScript to TypeScript, resulting in a **24% reduction** in application failure and error rates, significantly improving overall system reliability.
  - **AI Integration:** Designed and implemented AI pipelines leveraging *OpenAI*, enhancing the application's capabilities and user engagement.
- **Lead Developer - Lumoflo** [Website](#)  
*Full-Stack & Mobile Multi-Tenant E-commerce Platform* April 2024 - Present
  - **Backend Architecture:** Engineered robust backend using *Express.js* and *ts-rest*, implementing end-to-end type safety. Designed sophisticated *monorepo structure*, reducing build times by **56%** (15 min to 6.6 min).
  - **Advanced Features:** Developed complex account synchronization for carts and queues. Implemented high-performance job queuing system using *bull-mq*, *Redis* and *Trigger.dev* for efficient task processing.
  - **Mobile Development:** Developing a React Native application for merchants that utilizes the common backend contracts and the aforementioned APIs.
  - **Frontend Development:** Led frontend development with *Next.js*, creating a centralized design library of reusable components. Optimized dev environment, reducing server startup times from **5.12 minutes to under 10 seconds**.
  - **Automated Testing:** Wrote over 40 end-to-end tests for core modules, automating API endpoint testing using *Docker*, *Superagent*, *Prisma*, and *Jest*, significantly enhancing code reliability and deployment confidence.
  - **Tech Stack: Backend:** *Express.js, TypeScript, Postgres, Redis, Ts-Rest, Agenda, Jest, Jupa*  
**Frontend:** *Next.js 14, React Server Components, TailwindCSS*  
**Infrastructure:** *Docker containers, Fly.io, Cloudflare Images, Vercel Platform, Vercel Domains API*
- **Lead Developer - Andronix** [Website](#)  
*Ranks No. 1 on Google Play Store for "Linux" keyword. Over 1.7 Million downloads* April 2019 - Present
  - **Android App:** Developed the entire Android App using *Kotlin* with *MVVM architecture*. Used libraries like:
    - \* *Retrofit — OkHttp - Rest API calls & caching:*
    - \* *LiveData — Coroutines - Async operations:*
  - **Backend:** Developed the backend of Andronix to handle download requests at scale:
    - \* **TypeScript and Integration tests:** Refactored the code to TypeScript and increased the coverage to over **80%**. Used Firebase emulators to further increase the integration test coverage to **78%** from 0%.
    - \* **Microservices:** Modularized the API into Internal, Commerce, and Product APIs and reduced the time spent on maintenance.
  - **Frontend:** Developed the frontend of the Andronix app's websites with *NuxtJS* and *VueJS*, styling them with *TailwindCSS*.
    - \* **End-to-end testing with CypressJS:** Implemented automated End-to-end testing using CypressJS.

## PROJECTS

- **Andronix:** Android app that lets you install Linux distributions like Ubuntu, Manjaro, Debian, Arch etc. on un-rooted Android devices. Over **1.5 Million+** downloads and over **100,000** monthly active users from USA, India, Russia, Germany etc. Andronix **ranks #1** on the Google Play Store for the Linux keyword.  
*Links:* [Github](#), [Website](#), [Live Demo](#)
- **Lumoflo:** App facilitating seamless sales with Automated Billing, Shipping, Invoicing, and Inventory Management. A multi-tenant app that lets sellers sell via a unified dashboard and users, via multiple yet unified storefronts.  
*Links:* [Website](#)
- **Rapid- Starter:** A starter template using NextJS and ExpressJS with complete end-to-end typesafety with TS-Rest contract. It also uses ui/shadcn for components and you can add more apps and packages using Turborepo.  
*Links:* [Website](#)