Sagar **K**

Bengaluru Karnataka India

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[Portfolio Link](#)

Innovative software developer skilled in Python, JavaScript, full-stack development (React.js, Node.js), Android development, and cloud computing, delivering scalable solutions for cutting-edge projects.

Skills

Languages: JavaScript · TypeScript · Kotlin · Python · HTML5
Technologies: Jetpack Compose · Next.js · React.js · Node.js · Express.js · NextAuth · Tailwind CSS
Cloud Computing: Firebase · Vercel · MongoDB · Atlas
Tools: Git · VS Code · Android Studio · Xray · JIRA · FIGMA

Experience

TATA Consultancy Services (TCS)   **Dec.2021 – Present**

Android Developer (Jaguar Land Rover client)

- Designed and implemented **Android Automotive features** using **Kotlin** and **Jetpack Compose**, creating intuitive and responsive UIs designs for in-vehicle infotainment systems.
- **Implemented and optimized** Android **Automotive functionalities**, ensuring seamless user interactions and efficient system performance.
- Collaborated with cross-functional teams to design scalable solutions, and troubleshoot issues during the development of **Android Automotive functionalities**.
- **Automated** Android property extraction using **Python**, accelerating test case development by **200%** and enabling early detection of data discrepancies.
- Acquired expertise in **Android Automotive System Architecture**, **CAN**, **FlexRay**, **SOMEIP** protocols, and **ISO 26262 standards**, ensuring functional safety compliance.

Projects

Split Money ([Demo](#)) ([Source Code](#))   **Feb.2025**
- Developed an **Android** app using **Kotlin** and **Jetpack Compose** to manage group expenses with secure **Firebase Authentication** and an intuitive UI. Firestore integration for **real-time** sync is in progress.

Expense Mate ([Demo](#)) ([Source Code](#))   **Nov.2024 – Apr.2025**

- Developed a full-stack expense tracker using **Next.js**, **TypeScript**, and **MongoDB** with **NextAuth** authentication and **CRUD operations** for managing expenses.
- Implemented **Redis** caching to reduce MongoDB read operations, **optimize API** response time by approximately **40-50%.**
- Designed interactive data visualizations with **Recharts** and enhanced the user interface with **Tailwind CSS** and **Framer Motion** for a modern and engaging experience.

Gamer Freak ([Demo](#)) ([Source Code](#))   **Jan.2023 – Nov.2023**

- Built a Full-stack **E-commerce web application** using **React, Firebase, and Bootstrap** with real-time database and authentication.
- Leveraged **React Context API** and **NoSQL** for efficient state management and data storage.

Achievements

- **Associate Google Cloud Certification** ([Link](#))   **Apr.2023**
- **Innovation Super Star** (TCS - Recognized for automation tools that improved productivity)   **Dec.2024**

Education

Rajarajeswari College Of Engineering   *Bengaluru Karnataka*

Bachler Of Engineering   **Jul.2017 – Aug.2021**

- Graduated with **78.4%** in **Electronics & Communication Engineering**.