

Mahesh Kumar

Portfolio: krmahi.github.io/portfolio-bento-ui

Online Presence: [LinkedIn](#) [GitHub](#) [Figma](#) [Unstap: \(Hackathons\)](#)

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SUMMARY

Aspiring Software Developer with strong foundation in full-stack development, cloud computing, and real-time problem solving. Interned at **AWS** and **Trusted Wearables**, where I improved ML output accuracy by over **~20%** and built responsive smartwatch UIs that ran smooth on minimal resources, Proven performer in national-level tech competitions including **Flipkart GRiD 5.0**, **HackOn with Amazon**, **Tata Imagination Challenge** and **Xiaomi Ode2Code 3.0**

WORK HISTORY

Trusted Wearables – Software Developer Intern

Delhi Ncr, India

Feb 2024 – Apr 2024

- Developed smartwatch and mobile apps using **Kotlin**, **Swift**, and **React Native**, improving device compatibility across iOS and Android platforms
- Designed intuitive **UI** using **LVGL** and **Squareline Studio**, reducing frame lag and **enhancing interface responsiveness by 25%** on low-resource devices
- Optimized UI rendering bottlenecks and animation load, **improving load time efficiency** under memory-constrained environments

AWS – Cloud Architecture Intern

Remote

Sep 2023 – Nov 2023

- Managed AWS **virtual machines** and optimized S3 storage using CLI and lifecycle policies, **reducing monthly cloud storage cost by 18%**
- Visualized large datasets using **BigQuery** and **Looker**, automating reporting pipelines and **reducing manual analysis time by 40%**
- Executed **Automated integration** and **regression tests** for cloud-deployed applications, identifying configuration-level issues.

PROJECTS

AI Drawing Calculator and Problem Solver | [Repo](#), [Live](#)

- Developed a React-based canvas app to recognize **hand-drawn math problems** via LLM-powered API integration with **base64-encoded snapshots**
- Built a canvas-based UI with swatches and live rendering, **improving task completion time by 35% over traditional form input methods**
- Added **undo/redo functionality** and **pressure-sensitive**, increasing drawing precision and **reducing user correction time**

Skills: React.js, TypeScript, API, TailwindCSS, NLP, CNN, MathJax, Axios, Uvicorn

Autonomous Vehicle Navigation System (SenseDrive) | [Repo](#)

- Led development of real-time simulation for **lidar**, **camera**, and **INS**-based autonomous driving in Unreal Engine, **improving sensor fusion testing efficiency by 40%**
- Built decision-making planner for traffic light interaction using Simulink Stateflow, **enhancing autonomous response accuracy in urban scenarios**
- Contributed to research-grade simulation environment replicating realistic autonomous driving patterns for **academic** and **R&D applications**

Skills: Simulink, Stateflow, Unreal Engine, MATLAB, C++, Robotics

SecondLife – Cross-Platform Marketplace App | [Repo](#)

- Developed a mobile app for buying/selling second-hand items, integrating secure auth, image caching, push notifications, and real-time form validation
- Achieved <2s average load time** and seamless user flows across 10+ tested Android/iOS devices, **improving usability by 35%**
- Built custom backend APIs in Node.js for item listing, JWT authentication, and secure user data handling

Skills: React Native, Expo, Node.js, JWT, SecureStorage, AsyncCache

SKILLS

• Languages & Tools:

Python, C++, JavaScript, TypeScript, MATLAB, GitHub, version control, CI/CD, Postman, Figma, Firebase CLI, Squareline Studio

• Frameworks, Platforms & Libraries:

React.js, React Native, Node.js, Expo, Express.js, Redux, Firebase, LVGL, AWS, FastAPI, Google Cloud, Looker, REST APIs, JWT Auth, TailwindCSS, Debugging

• AI, Data & System Technologies:

Machine Learning, NLP, CNN, MongoDB, MySQL, OpenCV, UI/UX, Canvas API, State Management (Redux/hooks/Props)

• Soft Skills:

Leadership, Problem Solving, Collaboration, Communication, Time Management, Critical Thinking, Adaptability, Analytical Reasoning

EDUCATION

Bachelor's Computer science & engineering

G.L. Bajaj Institute of Technology and Management, Delhi NCR

Nov 2020 – Jul 2024 | CGPA: **8.23 / 10**

Intermediate & High School - Science (PCM)

Army Public School, India

Apr 2019 – Mar 2020 **XII** | Grade: **89%**

Apr 2017 – Mar 2018 **X** | Grade: **86.83%**

CERTIFICATIONS

- Cloud Architecture & Fundamentals – AWS Academy
- Google Cloud Arcade Facilitator – Google Cloud
- Data Structures & Algorithms in Python – Google
- Problem Solving – HackerRank
- Data Science Foundation – Infosys
- Certified C++ Developer – Coding Ninjas

HACKATHONS

- Top 20 Finalist**, Xiaomi Ode2Code 3.0
- Advanced to Level 2**, Flipkart GRiD 5.0 (Software Dev Track)
- Participated in **HackOn with Amazon**, **TVS Credit E.P.I.C 5.0 – IT Challenge**
- Other national-level challenges: Tata Crucible Quiz, Tata Imagination Challenge, Tally CodeBrewers, L'Oréal Sustainability Challenge, Namma Yatri Mobility Challenge