Mahesh Kumar

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

Online Presence: LinkedIn GitHub Figma Unstop: (Hackathons)

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 embedded UIs using LVGL on resource-constrained hardware, reducing frame drops & improving rendering efficiency by 25%
- 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

- Built and tested simulation frameworks for lidar, camera, INS, Sensor Fusion integrating C++ modules in Unreal Engine to replicate real-time sensor inputs and signal processing patterns
- Developed traffic interaction logic using **Simulink**, **Stateflow**, Decision systems & verifying time sensitive transitions under urban drive test 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

♀ Indore, India

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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, SDLC
- AI, Data & System Technologies:
 Machine Learning, NLP, CNN, MongoDB,
 MySQL, OpenCV, UI/UX, Canvas API, State
 Management (Redux/hooks/Props), LLMs
- 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