Manith Luthria

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SUMMARY

Full-stack engineer with a Master's in Electrical and Computer Engineering from Duke University and experience building high-performance, data-driven applications using React, JavaScript, Python, Java, and SQL. Skilled in backend development, automation, and rapidly shipping production-grade tools in fast-paced environments. Strong foundation in algorithms, statistics, and computer systems.

EXPERIENCE

Texas Instruments   Dallas, TX

Full Stack Software Engineer   *June 2024 - Present*

- Built 5+ internal-facing web apps using React and SQL to streamline real-time decision-making across global manufacturing teams.
- Re-architected the frontend of a real-time equipment dashboard used at 100+ sites, improving UI responsiveness by 50%.
- Delivered full-stack tools that improved fab operations and eliminated 2 hours/day of manual tasks.
- Collaborated with 10+ stakeholders to scope, design, and ship data-driven solutions in a fast-paced environment.
- Maintained and improved legacy fab automation web tools with jQuery-based UIs, reducing support tickets by 50%.
- Built tools that visualize live fab data and display critical insights for quicker production floor decisions.

Texas Instruments   Dallas, TX

Software Engineer Intern   *June 2023 - August 2023*

- Implemented copy-paste functionality in a preventive maintenance (PM) web application using React and JavaScript, saving fab technicians over 2 hours/day.
- Developed backend Java API logic to safely process data insertions, preventing overflows in Oracle SQL database.
- Created reporting dashboards across fab web applications, reducing report preparation time by over 50%.
- Gained hands-on experience in a 300mm semiconductor fab, understanding silicon manufacturing workflows and cross-functional engineering roles.

PROJECTS

Modurnal

Journaling App with AI Mood Insights & Spotify Integration

- Built journaling app with React Native and TypeScript, focusing on polished UI and performance.
- Integrated OpenAI API for AI-powered sentiment analysis and mood insights.
- Developed Spotify integration to correlate music listening data with journal entries.
- Engineered backend with Supabase and PostgreSQL, using Row-Level Security for secure authentication and data pipelines.

EDUCATION

Duke University   Durham, NC

Masters of Engineering in Electrical and Computer Engineering; GPA: 3.85   2024

Duke University   Durham, NC

Bachelors of Science (x2)- Electrical and Computer Engineering + Computer Science; GPA: 3.78   2023

SKILLS

- **Languages**: TypeScript, JavaScript, Python, Java, SQL, C, PostgreSQL, Bash/Shell Scripting

- **Tools and Technologies**: React, Data Analysis, React Native, Git, Spring Boot, Linux/Unix, Docker, REST APIs, AWS, API Design, CI/CD, Jenkins, Maven, Agile