

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