

# Manith Luthria

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## SUMMARY

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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

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- 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

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- 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

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- 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

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- 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