**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**

**Full Stack Software Engineer** *- Texas Instruments* | Dallas, TX | 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.

**Software Engineer Intern** *- Texas Instruments* | Dallas, TX | 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**

*May 2025 - Present*

● 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**

**Masters of Engineering in Electrical and Computer Engineering**

*Duke University | Durham, NC | 2024 | GPA: 3.85*

**Relevant Coursework:** Machine Learning, Cybersecurity Principles, Analog Integrated Circuit Design, Advanced Computer Architecture, Robotics

**Bachelors of Science in Engineering - Electrical and Computer Engineering + Computer Science**

*Duke University | Durham, NC | 2023 | GPA: 3.78*

**Relevant Coursework:** Data Structures and Algorithms, Software Development, Operating Systems, Network Architecture, Data Science, Signals and Systems

# **Skills**

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

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