

# Laksh Makhija

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## EDUCATION

Georgia Institute of Technology, Atlanta, GA

Dec 2026

*Bachelor of Science in Computer Science (Concentrating in Intelligence and Systems & Architecture)*

**Coursework:** Data Structures & Algorithms, Linear Algebra, Systems & Networks, Perception & Robotics, Artificial Intelligence, Operating Systems, Embedded Systems, Natural Language Processing, Machine Learning

**Cumulative GPA:** 4.0/4.0

## SKILLS

**Programming:** Java, JavaScript, Python, HTML, CSS, SQL, noSQL, PHP, Dart, C, Assembly, Rust, C++, GraphQL, TypeScript

**Frameworks:** React, React Native, Django, NodeJS, MongoDB, RESTAPI, SocketIO, Redux, Angular, Spring Boot, Flutter

**Tools:** PostgreSQL, Firebase, Firestore cloud storage, Azure, Docker, Git, MySQL, TensorFlow, Pytorch, LLMs

## WORK EXPERIENCE

Meta Platforms, Menlo Park, CA | *Software Engineer Intern*

May 2025 – Aug 2025

- Revamped the debugging pipeline for Meta's business insight generation model, **reducing redundant business recommendations by 15%** and contributing to a **~\$22.5M revenue increase**
- Enhanced filtering of model outputs by addressing edge cases and refining delivery logic, resulting in a **40% increase in insight delivery accuracy** and **higher engagement** from businesses using Meta's business platforms
- Collaborated cross-functionally within the Monetization organization to **enhance personalized recommendations**, supporting thousands of businesses in acquiring customers more effectively through data-driven insights

Macs-G, Dubai, UAE | *Full Stack Web Developer & Flutter Developer*

May 2024 – Aug 2024

- Integrated a **SaaS multi-tenant architecture** into an existing NodeJS + MySQL backend **improving querying time by 35%** and **strengthening data security by 53%**
- Led development of a Construction Management software using Flutter + MySQL with **room tracking via OCR** and providing a **seamless user experience** for inspections and submitting reports
- Developed a full-stack expense management platform with client & admin interfaces, integrating **cloud storage, OCR, and LLMs** to automate data extraction—**reducing manual processing time by 32%** and **preventing misuse by 40%**

EmQube, Dubai, UAE | *Software Tester & Mobile App Developer*

June 2023 – Aug 2023

- Tested the in-development Facility Management Software (CAFM Pro) and made **40+ fixes using Angular**
- Developed a React Native cross-platform mobile application to offer on-demand services, enhancing the accessibility of the existing system by adding a mobile client alongside the server and web clients, resulting in a **20% increase in facility management companies' satisfaction** and **willingness to adopt the product**

## TECHNICAL PROJECTS

Smart Energy Anomaly Detection, Atlanta, GA

Aug 2025 – Present

- Built an **AI-powered IoT system** for Georgia Tech's Kendeda Building to **optimize energy usage** by analyzing over **10M** readings from **50+ sensors**, integrating weather and occupancy data to **detect anomalies** using **Z-score & Isolation Forest**
- Developed an API-driven dashboard for **real-time anomaly visualization** and **root-cause analysis**, **reducing manual inspection time by 65%** and **achieving 92% detection precision**, aiding campus-wide sustainability reporting.

Safety Ambassadors Program, Dubai, UAE

Apr 2021 – Nov 2022

- Collaborated with the Dubai Police to develop a web application using HTML, CSS, and Django to educate students (Gr 3-8) on digital safety through games and modules
- Implemented features including popups, carousels, points, and leaderboards to increase user interactivity
- Impacted **1500+ users** with an **80% improvement rate** observed through pre and post surveys

## LEADERSHIP AND COMMUNITY ENGAGEMENT

Georgia Tech College of Computing, Atlanta, GA | *Systems & Networks Teaching Assistant*

Aug 2025 – Present

- Tutor students in Computer Architecture (**RISC vs CISC**), **Assembly**, **Memory Hierarchy**, **Operating Systems**, **C Programming**, **Caching**, **Multithreading (pthreads)**, and Networking (**TCP/IP**, **Ethernet**, **Routing**)
- Host weekly office hours, provided feedback on student assignments, and led lab sessions with 50+ students

Georgia Tech Vertically Integrated Program, Atlanta, GA | *Researcher*

Jan 2025 – Present

- Design and implement a shared Memory Management Unit in Rust to enable **secure communication protocols** between the high-security and low-security processors thus **ensuring the security and integrity** of the voting machine

GT Web Dev, Atlanta, GA | *President & Project Manager*

Aug 2023 – Present

- Spearheaded development of a multiplayer web-based Dungeons & Dragons game using **React** and **LLMs** to allow **dynamic role selection** along with **story and decisions generation**
- Enabled **real-time multiplayer** by creating live servers with **WebSocket (SocketIO)** and **NodeJS**
- Led a **hands-on bootcamp** covering the **MERN stack**, guiding participants through building and deploying a full-stack application