

Archit Lakhani

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EDUCATION

Georgia Institute of Technology – College of Computing

Atlanta, GA

Bachelor of Science in Computer Science, GPA: 4.00/4.00

Aug. 2025 – Present

- **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Linear Algebra, Discrete Math, Multivariable Calculus

EXPERIENCE

AI Research Intern

May 2026 – Present

Mohammed Bin Zayed University of Artificial Intelligence (MBZUAI) & GenBio AI

Abu Dhabi, UAE

- Developed a Biomedical Agentic Design architecture using **Claude Workflows and OpenClaw agentic ML pipelines** for BioXArena benchmarking tests, outperforming other agents by ~9% on average across 76 domain tasks
- Drove up to ~30% task-level score gains through human-guided model selection, biological feature engineering, cross-validation, leakage prevention, and submission debugging
- Currently authoring a **research paper** on the agentic AI workflow, experimental results, and human-in-the-loop design patterns for biomedical ML agents

Undergraduate Researcher

Jan. 2026 – May 2026

Georgia Tech Sabra Lab

Atlanta, GA

- Researched autonomous BlueBoat navigation using monocular depth estimation for obstacle awareness and navigation
- Evaluated **4+ SLAM models** including Apple Depth Pro, MiDaS, ORB-SLAM2, and ZoeDepth for Raspberry Pi 5 deployment
- Supported a real-time perception pipeline with **YOLOv10, EKF sonar localization, and GTRI field tests every 1–2 weeks**

Teaching Assistant

Jan. 2026 – May 2026

Georgia Institute of Technology

Atlanta, GA

- Teaching Assistant for **Object-Oriented Programming in Java**, supporting **300+ students** through recitations and office hours
- Guided students through core Java topics including OOP principles, generics, file I/O, debugging, and software design fundamentals
- **Contributed 200+ hours** grading assignments/exams and answering student questions on Java programming concepts

Finance and Data Analytics Intern

July 2025

Emkay Global Financial Services Ltd

Mumbai, India

- Analyzed **4+ equity markets** using **Python and the Bloomberg Terminal** to study cash, futures, and options delta correlations, improving **delta correlation accuracy by 30%**
- Practiced options strategies including delta-neutral hedging, put-call parity, and volatility spreads to evaluate trading risk-reward
- Utilized **real-time Bloomberg insights** to improve decision-making in equity and derivatives trading

Machine Learning Intern

July 2024 – Aug. 2024

Reliance Jio

Remote

- Developed a **Text-to-SQL LLM** that translated natural language into SQL queries and returned structured data from databases
- Implemented **NLP pipelines using LangChain, Hugging Face, and Ollama**, integrating with SQL and Python IDEs; **improved query generation speed by 50% and accuracy by ~60%**

AI & NLP Intern

June 2023 – July 2023

National University of Singapore

Singapore

- Implemented machine learning models (ANN, CNN, RNN, regression, clustering, decision trees) to solve predictive analytics tasks
- Programmed and deployed chatbots using Amazon Lex and built face recognition with Amazon Rekognition, improving application accessibility
- Utilized predictive modelling techniques to forecast telecom customer churn up to 1.5 years and evaluated drivers influencing retention

PROJECTS

Georgia Tech iOS Club | *Swift, SwiftUI, Firebase*

Jan. 2026 – May 2026

- Built a SwiftUI iOS app for birthday tracking and **AI-generated personalized messages**
- Led a team project that **won the GT iOS Club Demo Day Pitch Competition** for product execution and UX
- Senior iOS Developer for **SideQuest**, a **SwiftUI + Firebase social adventure app** used by 100+ testers
- Built 6+ core features including quest posting, collaborator flows, image uploads, feeds, profiles, and leaderboards

LEADERSHIP & INVOLVEMENT

Chess | *Dubai, UAE · Amritsar, India · Hyderabad, India · Atlanta, GA*

Apr. 2020 – Present

- Represented the UAE Chess Team 2x in the CISCE National Games
- Top 0.01% on the world's largest online chess platform in multiple time formats

Publications | *Dubai, UAE*

Sept. 2024

- Securing Machine Learning: Understanding Adversarial Attacks and Bias Mitigation – analysed the vulnerability of AI algorithms and their proneness to bias

SKILLS & CERTIFICATIONS

Languages: Python, C++, SQL, Java, Swift, CSS

AI/ML: LangChain, Hugging Face, Ollama, Claude, OpenClaw, Amazon Lex, Amazon Rekognition, NLP, LLMs, Machine Learning, Deep Learning, Feature Engineering, Cross-Validation, Predictive Modelling, Claude Code

Frameworks & Libraries: Git, Pytorch, scikit-learn, pandas, NumPy, Flask, Jinja, Spring Boot, SwiftUI, Firebase, OpenCV

Certifications: What is Data Science? (IBM) | CS50P: Python (Harvard) | CS50X: Computer Science (Harvard) | CS50AI: Artificial Intelligence (Harvard) | Advanced MCP (Anthropic) | Claude Code in Action (Anthropic)