

VEDANT LALIT BHATT

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

B.S. in Computer Science | GPA: 3.9 — Expected Graduation: May 2027

August 2024 – Present

- **Concentrations:** Intelligence and Information Networks
- **Relevant Coursework:** Introduction to AI, Computer Systems and Networks, Design and Analysis of Algorithms, Data Structures and Algorithms, Database Systems, Discrete Mathematics, Objects and Design, Linear Algebra
- **Scholarships & Awards:** Zell Miller Scholarship, Georgia Certificate of Merit, IT Specialist Certipoint Software Development

EXPERIENCE

GT BrainLab

Atlanta, GA

Undergraduate Researcher

September 2025 – Present

- Coded Python pipelines to preprocess and decode EEG data and built interactive interfaces to visualize real-time signals
- Applied time series models to classify brain waves and SSVEP activity, decoding attended stimulus frequency for BCI control
- Worked with adaptive noise cancellation to remove 60 Hz power line interference, improving neural signal fidelity

Quilly

Atlanta, GA

Software Engineering Intern

August 2025 – October 2025

- Migrated backend from Firebase to Supabase with PostgreSQL, achieving 75% faster read times and 60% faster write
- Collaborated with cross-functional teams to debug and optimize platform performance with Redis caching and GraphQL APIs
- Converted Figma designs into responsive, inline-styled HTML/CSS templates tailored for Mailchimp email campaigns

King of the Curve

Atlanta, GA

Full Stack Developer Intern

July 2025 – October 2025

- Led the rebrand for the MCAT study app using Flutter and Dart, modernizing UI responsiveness and user experience
- Worked with Figma designs to create interactive flashcards, quizzes, and progress tracking features used by 100,000+ users
- Applied Firebase backend services: real-time database, authentication, and cloud functions to support data & user management

Big Data Big Impact - FishCast

Atlanta, GA

Data Engineer

February 2025 – Present

- Maintained data pipelines integrating large ecological datasets from NOAA and Fishbase for predictive modeling purposes
- Researched and trained time series models & LSTMs to accurately forecast Atlantic Cod habitat shifts due to climate change
- Designed and developed interactive GIS maps and dashboards using visualization tools and GIS software for readability

Alpha Kappa Psi (Business Fraternity)

Atlanta, GA

Director of Software Development

January 2025 – Present

- Developed a website used by the fraternity of 200+ members, streamlining the tracking of members and their performance
- Implemented WebSockets for real-time group discussions and forums, enhancing collaboration among fraternity members
- Utilized React and Firebase for front/back-end services, and Axios to handle API requests and data retrieval efficiently

PROJECTS

FileAI — TypeScript | Python | OpenAI CLIP | HuggingFace | FAISS | CedarOS | NumPy | Git

September 2025

- Built an interactive natural language chatbot enabling users to execute file actions: create, move, organize, zip, and search
- Implemented semantic file parsing, mapping file contents to vector embeddings for representation and retrieval
- Accelerated query times 75% by caching and retrieving previously calculated vector embeddings with FAISS Library

MySQL - Runner — TypeScript | Node.js | Python | Flask API | MySQL | Git | Ollama

September 2025

- Developed a VS Code extension integrating Ollama's Llama3.2 NLP model to convert natural language queries into SQL
- Increased query accuracy by 30% using schema-aware prompts to ensure valid table and column names in generated queries
- Built to boost productivity by seamlessly integrating multiple tools, reducing context switching and saving navigation time

Track My — JavaScript | React.js | Node.js | Python | FastAPI | MySQL | SQLAlchemy | Docker | Git

June 2025 – Present

- Designing a React Native application helping users with lost items using community crowdsourcing and monetary incentives
- Deploying a FastAPI backend, powered by PostgreSQL, Supabase, and Docker and leveraging JWT-based authentication
- Leveraged ML to create an image similarity search using OpenAI CLIP and FAISS, achieving a 82% retrieval accuracy

SKILLS

Languages: Java | HTML | CSS | Python | Assembly | Swift | SwiftUI | C# | C | C++ | PostgreSQL | JavaScript | TypeScript

Software: Xcode | Git | MySQL Workbench | Jira | Axios | Visual Studio Code | PyCharm | IntelliJ IDEA | Terminal/Bash

Platforms/Frameworks: Node.js | React.js | Hugging Face | scikit-learn | Pandas | AGILE | Flask | AWS | Next.js | Docker