VEDANT LALIT BHATT

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EDUCATION

Georgia Institute of Technology   **Atlanta, GA**
B.S. in Computer Science | GPA: 3.9 — Exp. 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 Certiport 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 wave and SSVEP activity, decoding attended stimulus frequency for BCI control
- Implemented adaptive noise cancellation to remove 60 Hz power line interference, improving neural signal fidelity

Quilly   **Atlanta, GA**
Software Engineering Intern   *August 2025 – October 2025*
- 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
- Developed interactive community engagement features, driving average user session length by 60% based on web analytics

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 by 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, saving time navigating and avoiding context switching

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

Active Knockout — C# | Unity | Blender   April 2024 – June 2024
- Created a virtual reality fitness experience, integrating a boxing practice simulator to encourage physical activity and health
- Optimized VR interaction mechanics and real-time performance issues in Unity to ensure a responsive user experience
- Secured 7th place at the Technology Student Association national conference whilst competing against 200+ teams

SKILLS

Languages: Java | HTML | CSS | Python | Assembly | Swift | SwiftUI | C# | C | C++ | MySQL | JavaScript | TypeScript
Software: Node.js | React.js | Hugging Face | scikit-learn | Pandas | Xcode | Git | Supabase | MySQL Workbench | Jira | Axios
Interests: Competitive Programming | App Development | 3-D Modeling | Animation | Running | Piano | Hiking | Weightlifting