# Trinayaan Hariharan

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## EDUCATION

**Georgia Institute of Technology**  Atlanta, GA
*B.S Computer Science*  *May 2027*
*GPA: 3.64/4.0 - Relevant Coursework: Object Oriented Programming, Data Structures & Algorithms, Human Centered Technology, Algorithms, Artificial Intelligence, Machine Learning, Database Systems, UI Design, Computer Architecture*
*Organizations: Startup Exchange, AI@GT, Trading Club, South Indian Association*

## EXPERIENCE

**Software Development Engineering Intern**  May 2025 – August 2025
*Amazon Web Services (AWS)*  *Seattle, WA*
- Architected and developed a scalable internal dashboard to monitor global AWS Lambda invocation patterns and detect accounts with recursive function loops to prevent runaway workloads.
- Designed an ETL pipeline using AWS Lambda to extract data from Redshift via the Data API, transform and clean it, and load it into S3 for downstream processing.
- Leveraged AWS Glue and Athena for data analysis and built insightful dashboards in Amazon QuickSight to visualize trends in real-time Lambda usage.
- Implemented complete infrastructure automation using AWS CDK and integrated CI/CD pipelines to ensure seamless deployment and reproducibility across environments.

**Software Engineering Intern**  May 2024 – August 2024
*Travelers Insurance*  *Hartford, CT*
- Developed and implemented new features for an Enhanced XML Utility Tool to streamline data retrieval and parsing for underwriters, leveraging AWS S3 and DynamoDB for efficient data storage and access.
- Designed and deployed a Lambda function to automate data updates in DynamoDB, handling dynamic inputs to efficiently add, update, or delete table entries.
- Gained expertise in Jenkins CI/CD pipelines, ensuring a seamless SDLC. Managed Production Deployment (PD) requests and collaborated closely with the bridge team to execute successful production environment changes.
- Developed Databricks notebooks to create ETL pipelines for XML Messages to land in AWS S3.

**Founder**  April 2022 – Present
*PayBridge Technologies LLC*
- Pioneered a FinTech startup enabling seamless cross-platform payments between major platforms like PayPal and Venmo, leveraging diverse APIs (Discord, Twilio, PayPal) to automate secure transactions and establish a robust backend infrastructure, resulting in transactions clearing 10x faster and creating a positive P&L.
- Delivered compelling pitches to Venture Capitalists nationwide, securing funding by articulating the startup's value proposition and growth strategy, and collaborated on integrating Slack to streamline internal communication and project management.

## PROJECTS

**Sailo** | *Python, Modal, AWS, Redshift, Snowflake, BigQuery, Postgres, MySQL, LLM APIs, Streamlit*  August 2025
- Built an AI-powered ETL agent that connects directly to large-scale data warehouses (Redshift, Snowflake, BigQuery, Postgres, MySQL) and automatically generates pipelines to extract, transform, and load data.
- Implemented schema interpretation with LLMs to recommend monitoring pipelines, detect anomalies, and trigger automated actions (e.g., Slack alerts, downstream API calls).
- Deployed agents on Modal serverless infrastructure to deliver real-time insights and automate workflow execution with zero manual intervention.

**Routini** | *Python, Streamlit, OpenRouter, LLM APIs, SHA-256, JSON*  April 2025
- Built an AI-powered developer tool for intelligent LLM model routing using Streamlit, enabling cost-effective and accurate model selection from providers like OpenRouter.
- Implemented prompt hashing using SHA-256 to optimize performance and reduce redundant LLM calls, saving compute costs and latency.
- Provided routing rationale, developer toggles, and prompt-specific insights via an interactive UI with real-time feedback and model comparisons.

## TECHNICAL SKILLS

**Languages & Frameworks**: Java, Python, HTML, CSS, JavaScript, Flask, React, Bootstrap, Next.js, C++
**Developer Tools**: Visual Studio Code, Git, Sublime Text, Xcode, Jenkins
**Libraries & Databases**: NumPy, Pandas, TensorFlow, Matplotlib, Scikit-learn, SQL, SQLite, MongoDB, DynamoDB
**Certifications**: AWS Certified Cloud Practitioner (CLF-02)
**Other**: AWS, Database Management, Business Analytics, Capital Markets, Accounting, Compliance, P&L

## ACTIVITIES & LEADERSHIP

**Director of Operations**  May 2024 – Present
*Startup Exchange GT*  *Atlanta, GA*
- Managed a team of 80+ members overseeing all aspects of team operations and productivity.
- Developed and implemented onboarding and offboarding processes, including retreats, exit surveys, recruitment strategies, and handbooks to enhance team integration and satisfaction.
- Created a process management system to boost organizational efficiency and initiated feedback cycles to continuously improve the workstreams of 14 divisions, fostering a stronger tech-focused startup community.