Maya Iyer

mayaiyer@gatech.edu | www.linkedin.com/in/mayaaiyer

EDUCATION

Georgia Institute of Technology | Atlanta, GA   Expected Graduation Date: May 2024

M.S. - Computer Science, *Machine Learning*   *GPA: 4.0*

Georgia Institute of Technology | Atlanta, GA   AUGUST 2020 - MAY 2023

B.S. - Computer Science, *Intelligence & Theory*

Coursework: Machine Learning for Trading, Big Data Systems and Analytics, Graduate Algorithms, Automata and Complexity, Data Structures and Algorithms, Game AI, Logic in Computer Science, Object Oriented Programming

WORK EXPERIENCE

Software Development Engineer Intern | Amazon   MAY 2023 - AUGUST 2023

- Designed and developed a full stack application to render millions of logs and metrics on API health in critical tier 1 Amazon services, allowing for rapid and efficient diagnosing of problems during a live architecture migration
- Spun up 7 APIs to pull and process data from internal Amazon APIs and from AWS CloudWatch Log Insights to render on a React frontend in order to aid SDE debugging during service outages
- Allocated resources to a full stack application, independent of production in order to allow quick and reliable debugging, using EC2 flexible fleets

Head of Mobile Development | Queues   AUGUST 2021 - MARCH 2023

- Led product, technical architecture, strategic and executive leadership planning decisions for the team, including customer and partner engagements that build long term strategy for future of the app
- Implemented the Google Maps API to display vendors locations in iOS and Android apps alongside wait times, hours, and menus, significantly increasing the use cases of the Queues app
- Developed modular menus so vendors can individually update menu items via a backend portal and customers can customize items to order as desired on the frontend

Software Development Engineer Intern | Amazon   MAY 2022 - AUGUST 2022

- Created a data pipeline for the On-Road Execution team, which is responsible for all the backend services that ensure successful on-road planning and execution of tasks that a driver performs
- Engineered itinerary assignment history so data engineers could investigate and solve issues without manual searching via AWS services, creating DynamoDB streams, Lambda functions, Kinesis Firehose streams, S3 buckets, Glue tables, and Athena queries
- Leveraged backend services to transform millions of datapoints from JSON to Parquet to speed up SQL queries using Athena, enabling fast and effective triaging of issues related to package delivery

RESEARCH

Graduate Research Assistant | SoK in Cybersecurity   AUGUST 2023 - PRESENT

- Worked under Michael Bailey, the founding chair of the School of Cybersecurity and Privacy, and Nadiya Kostyuk
- Systematized several papers for a Systemization of Knowledge paper, to evaluate and contextualize existing knowledge
- Contributed to research on the role of technology in crisis management and mitigation

Undergraduate Researcher | AI-based Discovery and Innovation   JANUARY 2021 - MAY 2022

- Designed a two layer bidirectional LSTM recurrent neural network to accurately predict the price of a stock, leveraging Python and Jupyter notebooks
- Produced an algorithm using Principle Component Analysis and Radial Basis Function Kernel that consistently outperformed the S&P500 by 50%
- Built intelligent learning algorithms for extracting valuable knowledge from sets of data in order to make intelligent decisions on buying and selling stocks