Alexander Y. Liu

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Website: https://2019aliu.github.io

Education

Georgia Institute of Technology   GPA: N/A   Atlanta, GA
M.S. Computer Science, Spring 2023   *August 2022 - Present*

Georgia Institute of Technology   GPA: 3.83   Atlanta, GA
B.S. Computer Science, Spring 2022   *August 2019 - May 2022*

- Notable courses: Deep Learning, Machine Learning, Automata and Complexity, Computer Vision, Objects and Design, Computer Organization and Programming (Intro to C / Assembly), Database Systems, Information Visualizations, Honors Linear Algebra with Abstract Vector Spaces, Cognitive Science

Industry Experience

- **Software Engineering Intern**   Burlingame, CA
  Meta Reality Labs   *May 2022 - August 2022*
  - Created Text to Speech prototype for the Oculus Quest using Kotlin and Android AccessibilityServices
  - Developed 1st Accessibility Service for the Oculus UI/UX in Kotlin, contributing the 1st Kotlin code for the Oculus UI/UX
  - Set up the continuous build and continuous integration process for the Oculus Accessibility APK using BUCK and Facebook Sandcastle CI, speeding up accessibility feature deployment rates 200%

- **Software Engineering Intern**   Atlanta, GA - remote
  NCR Corporation   *May 2021 - August 2021*
  - Created Progressive Web App (PWA) version of NCR's Emerald POS from ideation to deployment, providing offline functionality for 1000s of nation-wide grocery chains
  - Implemented proof of concept of cryptocurrency payment for Emerald using the Rinkeby testnet, pushing one of the company's top priorities in blockchain technologies

- **Software Development Intern**   Rockville, MD - remote
  S&C Electric   *May 2020 - August 2020*
  - Led the design of backend, implementation, testing, and documentation of an application to monitor and manage 10000s S&C devices
  - Redesigned and implemented backend microservices and proxy to retrieve data from S&C Electric's devices, resulting in complete elimination of excessive data schema and 4x performance gain
  - Collaborated with design team to redesign a user-friendly interface, and implemented the interface with React and Electron to streamline and optimize code base

Research Experience

- **FunTech Group**   Atlanta, GA
  GT FinTech Lab   *March 2021 - January 2022*
  - Discovered patterns in language used by the Federal Reserve correlating to stock trends
  - Conducted weak supervision to clean data and identify topics in financial documents
  - Analyzed sentiment of Fed statements to understand Fed opinions on various market sectors

- **Move2Music**   Atlanta, GA - remote
  Parikh Lab   *August 2020 - December 2020*
  - Researched uses of recurrent neural networks and reinforcement in generating music from video footage of dance
  - Used modern encoding techniques and LSTMs to prototype pairing dance video with appropriate music

Skills

Languages: Java, Python, JavaScript/TypeScript

Infrastructures and Frameworks: Node.js/V8, React.js, SCSS, WebSocket, MongoDB, Firebase, Tensorflow, Git

Software: Android Studio, Figma, Jupyter Notebook