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Leonid Alexeyev

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Availability: Full Time Fall 2026

Education

Georgia Institute of Technology **Expected M.S. May 2026**

- Completed B.S. in Computer Science with a concentration in Intelligence and Devices **GPA: 3.78**
- Pursuing M.S. in Computer Science with a concentration in Machine Learning
- Teaching Assistant for CS 3630 (Perception and Robotics) and CS 2200 (Systems and Networks)

Skills

- Languages: C#, Typescript, Javascript, Java, Python, SQL, C, C++, Assembly, Matlab, VHDL
- Tools: React, React Native, .NET, Node.js, Git, Jira, Firebase, Expo, PostgreSQL, MySQL, VS Code, Rider

Experience

Software Development Intern **QGenda** **May 2025 - August 2025**

- Developed and maintained full stack features for on-call and location based scheduling, leveraging **React** and **.NET** frameworks to enhance a SaaS healthcare workforce management platform
- Worked with **PostgreSQL** and **MySQL** to design, optimize, and troubleshoot database queries supporting application function
- Collaborated in an Agile development environment completing stories as a fully integrated member of a software team, including daily stand-ups and sprint planning.

Pavement Quality Researcher **Georgia Institute of Technology** **January 2024 - May 2025**

- Investigated Full Reference Image Quality Assessment (IQA) and Point Cloud Quality Assessment (PCQA) indicators to develop a standardized validation metric of 3D scanners used for pavement crack detection
- Wrote **Python** scripts to validate identified IQAs and analyzed performance metrics using provided range data
- Pre-processed point clouds using **Matlab** and implemented candidate PCQAs on provided scans of pavement

Projects

Liftr **January 2025 - Current**

- Developing a social fitness app using a **React Native** framework, **Node.js** backend, and a **Firestore** NoSQL database, allowing users to log workouts, track progress, and connect with others
- Implemented a workout tracking system by integrating Firebase Firestore queries to dynamically fetch and process workout data
- Designed an optimized follower feed system using caching, significantly improving cost efficiency and scalability by reducing unnecessary Firestore reads

Smart Hangboard **March 2025 - May 2025**

- Created a rock climbing hangboard using an Arduino Mega with **C++** processing to track workout metrics, manually wiring and soldering inputs from load sensing cells and capacitive touch copper tape
- Constructed the hangboard by CNC wood milling based on a CAD design, integrating hex displays within a laser-cut casing for real-time user feedback

Uber Fare Price Predictor **August 2024 - December 2024**

- Engineered a machine learning model to predict Uber fare prices using key features such as distance, passenger count, and temporal variables
- Leveraged data cleaning/transformation and feature engineering to preprocess data, used **Python** and **scikit-learn** to implement and evaluate linear regression, random forest, and GMM models

Leadership

Sea Kayaking Trip Leader **Outdoor Recreation Georgia Tech** **December 2023 - Current**

- Lead weekly meetings to promote staff development and coordinate six sea kayaking trips a semester for Georgia Tech students
- Organized and led a two-week expedition to the Norwegian fjords, as well as two expeditions to Alaska, organizing meetings and training trips to prepare