Thomas Lang

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EDUCATION

AUG 2018 - MAY 2022	**Georgia Institute of Technology**, Atlanta, GA .... GPA: 3.9/4.0
	Bachelor of Science in Computer Science

WORK EXPERIENCE

MAY 2019 - JULY 2019	**Georgia Tech Research Institute**, Research Assistant
	• Rewrote a codebase of Matlab scripts in Python, creating documentation and improving scalability.
	• Developed algorithms for sensors to label land objects and visualize underwater surfaces from a plane.
	• Developed new features for a proprietary data visualization software in C++.
MAY 2018 - JUN 2018	**NASA Glenn Research Center**, Student Researcher
	• Tested an algorithm's effectiveness in a micro-controller by training a small car to avoid obstacles.

PROJECTS

AUG 2019 - PRESENT	**Running Music Web Application**
	A webapp that finds music based on running speed and band input
	• Built the backend with Node.js, using the Spotify API for song information.
	• Used React.js and bootstrap to create an appealing webpage for user interaction.
JAN 2019 - MAY 2019	**Risk Web Application**
	A multiplayer webapp version of the boardgame "RISK"
	• Built the front-end with Vue.js and Bootstrap, using a Konva.js canvas to render the game.
	• Used a Websocket API with a Play Framework backend to allow multiple users to play together.
AUG 2018 - JAN 2019	**Discord Conversation Analyzer**
	A python app that describes prior conversations using natural language processing
JAN 2017	**Hyland Software Hackathon**, First Place Winner
	Created an android mobile app that combines walking and video-games to encourage exercise

RESEARCH

JAN 2019 - PRESENT	**Georgia Tech Automotive Research Lab**, Software Team Lead
	• Managed a team of eight in completing various programming tasks and projects on time.
	• Used the Robot Operating System to simplify code and implemented self-driving algorithms.
AUG 2019 - PRESENT	**Georgia Tech Research Institute**, Research Assistant
	• Simulated LiDAR data and used machine learning to improve accuracy in LiDAR data processing.

SKILLS

PROGRAMMING:	Java, Python, C++, Javascript, HTML, CSS, Scala and Matlab
SOFTWARE:	Git, Bootstrap, Node.js, React, Vue.js, Android SDK, Linux, Arduino, ROS, Jekyll

INVOLVEMENT

AUG 2019 - PRESENT	**The Agency**, Georgia Tech's Machine Learning Club
AUG 2019 - PRESENT	**WREK Radio**, Georgia Tech's Student Radio Station
AUG 2018 - AUG 2019	**Robojackets**, Georgia Tech's Robotics Club
	• Designed and implemented a new defense strategy for Georgia Tech's autonomous robot soccer team.
JAN 2010 - APR 2018	**Boy Scouts of America**, Eagle Scout