Thomas Lang

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AUG 2018 - MAY 2022 Candidate for Bachelor of Science in Computer Science WORK EXPERIENCE MAY 2019 - JUN 2019 Georgia Tech Research Institute, Research Assistant · Rewrote a codebase of Matlab scripts in Python, creating documentation and improving scalability · Increased existing algorithm efficiency by 230% and developed new algorithms for LiDAR sensors to better classify land objects and visualize underwater surfaces from a plane • Developed new features for a proprietary data visualization software in C++ NASA Glenn Research Center, Student Researcher MAY 2018 - JUN 2018 • 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 **Risk Web Application** JAN 2019 - MAY 2019 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 Hyland Software Hackathon, First Place Winner **J**AN 2017 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 and advised a team of eight in completing various programming tasks and projects on time · Used the Robot Operating System to simplify code and implement 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 Java, Python, C++, Javascript, HTML, CSS, Scala and Matlab PROGRAMMING: Git, Bootstrap, Node.js, React, Vue.js, Android SDK, Linux, Arduino, ROS, Jekyll **SOFTWARE:** INVOLVEMENT AUG 2019 - PRESENT | The Agency, Georgia Tech's Machine Learning Club AUG 2019 - PRESENT | WREK Radio, Georgia Tech's Student Radio Station Robojackets, Georgia Tech's Robotics Club AUG 2018 - AUG 2019 • 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