Thomas Lang

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
M.S. in Computer Science, GPA 4.0/4.0   *Jan 2022 – Dec 2022*
Georgia Institute of Technology   Atlanta, GA
B.S. in Computer Science, GPA 3.9/4.0   *Aug 2018 – Dec 2021*

WORK EXPERIENCE

Google   Durham, NC
Software Engineering Intern   *May 2022 – Aug 2022*
- Worked on Google Cloud to improve end-to-end testing of production services for the Network Connectivity Center.
- Created a tool using Golang for automating resource creation and testing connectivity between networks.
- Improved the current system by simplifying user workflows and by increasing the complexity and scale of tests.

CS 3001   Atlanta, GA
Graduate Teaching Assistant   *Jan 2022 – Present*
- Led weekly recitations teaching computing ethics and graded assignments.

Capital One   McLean, VA
Software Engineering Intern   *Jun 2021 – Aug 2021*
- Developed a cloud security service that alerts teams when their applications have outdated security settings.
- Used Python, AWS Lambda and S3 to detect updates, determine vulnerabilities, and email alerts.
- Improved company cybersecurity by enforcing security standards on thousands of cloud resources.

NCR Corporation   Atlanta, GA
Software Engineering Intern   *Jun 2020 – Jan 2021*
- Built a framework to test cloud deployments against infrastructure failures to reduce production outages.
- Used Python to create cloud failures (like network loss) and monitor response times during recovery.
- Deployed the application to GCP using Kubernetes and Docker, and built a CI/CD pipeline using Harness.

Georgia Tech Research Institute   Atlanta, GA
Software Engineering Intern   *Jan 2020 – May 2020*
- Developed a text document antivirus feature that uses statistical analysis algorithms to classify files as malware.
- Used Python, MongoDB and Elasticsearch to create web-pages, API endpoints and unit tests.
- Improved file analysis services provided to customers by detecting social engineering attacks hidden in files.

Georgia Tech Research Institute   Atlanta, GA
Research Assistant   *May 2019 – Jan 2021*
- Used sensor data collected from an airplane to analyze ocean water and terrain.
- First Author, "Simulation and optimization-based method of environmental parameter distribution from airborne bathymetric LIDAR data", in SPIE Laser Radar Technology and Applications XXVI.

NASA   Cleveland, OH
Research Assistant   *May 2018 – Jun 2018*
- Implemented a machine learning algorithm in a micro-controller to test functionality in low memory environments.

INVOLVEMENT

HackGT, Tech Team Member   Jan 2021 - Jan 2022
- Built websites for virtual hackathons during Covid-19 using Typescript, React, Node and MongoDB.

Georgia Tech Automotive Research Lab, Software Team Lead   Jan 2019 - Dec 2021
- Led ten students in implementing self-driving vehicle algorithms using Python, C++ and ROS.

SKILLS

Languages: Golang, Python, TypeScript, JavaScript, Java, SQL, C++, Bash, C
Software: Git, Node, Express, Flask, React, Vue, Django, MongoDB, Elasticsearch, Tableau, DataBricks, Hadoop, Spark, D3, Docker, Kubernetes, GCP, AWS (Certified Cloud Practitioner)
Awards: Eagle Scout, Hyland Hackathon (1st Place), Capital One Hackathon (2nd Place), HackNCR (Patented)