

GABRIELLE GERMANSON

gabbygermanson@gmail.com 952-449-1247 Minnetonka, MN US Citizen [RTC Fellow](#)  [gabbygermanson](#)  [gabbygermanson](#)

OBJECTIVE

Upcoming December 2021 Georgia Tech computer science graduate seeking full-time. Experience in Java & Python with an eye for UX design to bring data to life. A strategic and resilient team leader known for her dependable execution and interpersonal skills.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

B.S. in Computer Science: 3.93 GPA | 5x Faculty Honors | 2x Dean's List

Expected Graduation: *December 2021*

- Concentrations: Artificial Intelligence, Human-Computer Interaction
- Barcelona Study Abroad Computer Science Program
- Outstanding College of Computing Freshman of the Year Award

May – July 2019

April 2019

SKILLS

LANGUAGES: Java, Python, jQuery, JavaScript, HTML, CSS, Bash, SQL, C, D3, JavaFX

TECHNICAL: Git, JUnit Mockito Testing, Linter, JSON, Servlets, Bootstrap, LiDAR, Assembly, Tableau, UX Design, Adobe XD, Figma

COURSES: Deep Learning, Data Structures, Object & Algo Design, Computer Organization, Robot Perception, Complex Automata

EXPERIENCE

GOOGLE

Minnetonka, MN Remote

Software Engineer Intern | Search Ads 360 Engine Integrations

May – August 2021

- Built Google Ads API reporting validation framework via legacy Search Ads 360 API on ~125 dimensions across 18 report types
 - Determined report type row identifiers for SQL and JSON API and worked with Protocol Buffer and CSV responses
 - Canonicalized both response data structure, field nomenclature, value conventions for row match and equivalence checks
 - Authored exemplary design document including an UML component diagram and presented to ~20 stakeholder engineers
- Active Women Intern Community member involved in networking, product inclusivity and leadership events, and Google fitness

STEP Intern | Map Evolution

May – August 2020

- [Web app](#) stores monthly icon dense snapshots in Cloud Drive APIs for UX designers to have a cumulative visual changes record
 - Synced Datastore API from Bootstrap selections to Maps JS API preview for user to confirm choices plus set up linters
 - Displayed batch downloadable snapshots from servlets in a flex grid with overlaid metadata via jQuery DOM manipulation

PROJECTS

BIG DATA BIG IMPACT: MINI CITY ATL

Atlanta, GA

Python Developer | Platform Duo Team

April 2021

- Provided viz tool to Mini City which aids homeless in attaining IDs for jobs and loans plus presented at AI intercollegiate [expo](#)
- Implemented REST API Flask endpoints parsing query's desired field from full JSON data into digestible format for visualization

ROBOTICS & PERCEPTION COURSE

Atlanta, GA

Python Developer

January 2021 – April 2021

- Coded Rapidly-exploring Random Tree smoothed trajectories with inverse kinematics and a controller for a differential drive robot
- Improved above RRT execution performance via Monte Carlo particle filter localization with motion and measurement updates
- Constructed factor graph for simultaneous localization and mapping via Iterative Closest Point algo's relative poses on AV LiDAR

SMART CITY INFRASTRUCTURE RESEARCH

Atlanta, GA

Java & Python Developer | LiDAR Road Sign Deterioration Team

August 2019 – April 2020

- Curated informative road sign detection [autograder](#) based on extracted ground truth and co-authored autograder [research paper](#)
 - Generated 9 Python OOP scripts implementing inverse distance normalization weighting to determine user's score
- Scripted Java multi-year CSV sign retro-intensity statistics, Java Python 3D point cloud extraction, and GPS – UTM converter

Python JavaScript Developer | Road CurveFinder Team

January – May 2019

- Converted JS circle fit curve detection to Python plus adjusted parameter and terminal arguments to optimize confusion matrix
- Ideated refining bearing angle endpoints, forming curves middle out, and halving Euclidean endpoint length to spot false positives

LEADERSHIP & VOLUNTEERING

Women @ College of Computing: *Executive Secretary*



May 2019 – December 2020

- Ran Georgia Tech's first womxn hackathon coordinating events and awards with 11 sponsors for 123 attendees virtually
- Designed weekly Mailchimp newsletter promoting opportunities sustaining 630 subscribers growing club ~25 members a semester

Kappa Alpha Theta Fraternity: *Informal Recruitment Committee*

January 2019 – April 2020

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- Sought out leading womxn, raised funds for Fulton's CASA foster care system, athletic captain encouraging intramural involvement