

Elena Thornton

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EDUCATION

Georgia Institute of Technology — B.S. Computer Science (3.90/4.0)

December 2022

- Concentration in HCI & Information Management
- Dean's List: Spring 2021, Fall 2020

Relevant Coursework

Object-Oriented Programming, Data Structures & Algorithms, Data Science, Computer Organization, Systems and Networks, User Experience Design, Linear Algebra, Multivariable Calculus, Networking

SKILLS

Languages: Java, Python, C, JavaScript, SQL, HTML, CSS, JS

Tools and Platforms: Git, Amazon Web Services (Redshift, S3, EC2), Linux (Ubuntu), Tableau, Figma

EXPERIENCE

Amazon Web Services — Software Development Intern

June 2021 – August 2021

- Improved the user experience and observability for Redshift customers who use the [Simple Replay](#) util by providing a concise report with cluster performance metrics to facilitate results interpretation for internal and external users.
- Built an automated analysis and reporting framework using Boto3 which employs AWS services to extract performance statistics via SQL query results which are used to generate a custom summarized report.
- Implemented the foundational architecture and CLI for Simple Replay Analysis to enhance the user interface.
- Created and maintained a living design document along with thorough API and README documentation.

Georgia State University — Supplemental Instruction Leader

August 2019 – May 2020

- Served as a mentor, leader, and resource for students enrolled in Calculus I.
- Organized, planned, and facilitated three weekly study sessions in which students practiced course concepts together.
- Worked with the course professor to create custom activities to help students reiterate concepts taught in class.

PROJECTS

DIY Face Shields ([link](#)) / COVID-19 Response — Volunteer Project

MARCH – APRIL 2020

- Donated 800+ face shields to hospitals and other first responders throughout Metro Atlanta.
- Modified and iterated upon existing [Verkstan visor frame](#) model using OpenSCAD and produced with 3D printing.
- Created a website to provide information, document progress, and share resources with GitHub Pages/HTML/CSS.

Quantify ([link](#)) — PantherHack, First Place

MARCH 2019, HACKATHON

- Developed a product that depicts the overall health of a business with metrics like costs of goods sold, expenses, assets, etc.
- Created a functioning prototype using a custom metric system written in Python with a MySQL database.
- Was personally responsible for the web page which interacted with the database and output accurate visuals of metrics.

Park-Alert — Capstone Project

DECEMBER 2016

- Designed and modeled prototype using Sketch-Up and 3D printing, coded using Raspberry Pi and Python3.
- Developed sensor model that recognizes the status of a parking space and relays information to a user via text/email.

RECOGNITION

- Georgia State University,
Dean's List: Fall 2019, Fall 2018
President's List: Spring 2020,
Summer 2019, Spring 2019
- PantherHack 2019, First Place

INVOLVEMENT

- College of Engineering Peer to
Peer, Mentee
- Society of Hispanic Professional
Engineers, Member

VOLUNTEERING

- HackGT: Catalyst, Volunteer
- Refuge Rescue, Volunteer