

# Willa Zheng

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## EDUCATION

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Georgia Institute of Technology

June 2021 - May 2025

B.S. in Computer Science [Concentration in People and Information Networks]

GPA - 3.6

## SKILLS

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**Programming Languages:** Java (Intermediate), JavaScript (Familiar), HTML/CSS (Familiar), C (Familiar)

**Software/Programs:** Git, IntelliJ, Android Developer Studio, Tableau

## PROJECTS

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### Towers Defense Game

January 2022 - May 2022

- Programmed a towers defense game application in **Android Developer Studio** utilizing layout features in activity xml files, UI handlers, and JUnit testing.
- Developed and optimized algorithms for currency exchange and ranged projectile movement
- Designed character and tower images for the game concept
- Maintained relevant SSD, Domain Model, and SD artifacts

### Transportation Fatalities Visualization

- Coded a website to display an interactive visualization depicting transportation fatalities by year with updating bar charts and donut charts to show distribution
- Incorporated tooltip functions, filters by year, and selection input buttons to make the visualization interactive and engaging for the users

## RELEVANT COURSEWORK

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### Intro to Information Visualization (Final Grade: A)

August 2022 - December 2022

- Principles of design for effective information visualizations, explorative visualizations for different dataset types, implementations using Excel, Tableau, **HTML**, **CSS**, and **JavaScript**

### Computer Organization & Programming (Final Grade: B)

August 2022 - December 2022

- Introductory computer hardware, **machine language**, assembly language, and **C programming**

### Object-Oriented Analysis and Design (Final Grade: A)

January 2022 - May 2022

- Agile development process, UML diagrams and written artifacts, computer architecture patterns and design principles, **Android Developer Studio**

### Data Structures and Algorithms (Final Grade: A)

January 2022 - May 2022

- Basic **data structures** (Lists, Trees, HashMaps) and **algorithms** (sorting, pattern-matching, graphs), Big-O notation, implementations within Java

## WORK EXPERIENCE AND LEADERSHIP

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### Internship with State Senate Candidate Sarah Beeson

August 2020 - November 2020

- Designed several social media and event graphics including an official voting day postcard to promote community events and political participation
- Mobilized and informed voters by reaching out to 100 households a week and assisted with organizing phonebanking parties

### Vice President of Chrysalis Literary Magazine Club

August 2018 - May 2021

- Designed over twenty magazine spread layouts for annual and special edition magazines
- Managed engagement and posts on the club's social media sites and blog
- Produced several social media graphics to promote club membership and magazine submissions