

Kate Li

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EDUCATION

Georgia Institute of Technology, Atlanta, Georgia

May 2028

Bachelor of Science in Computer Science

GPA: 4.0/4.0

- **Relevant Coursework:** Discrete Mathematics, Object-Oriented Programming, Computing, Statistics and Applications, Linear Algebra, Multivariable Calculus, Data Structures and Algorithms (Spring 2025), Database Systems (Spring 2025), Computer Organization and Programming (Spring 2025)

PROGRAMMING SKILLS

Programming/Scripting Languages: Java, Python, JavaScript, C++, HTML, CSS, C#, Google Apps Script

Frameworks and Tools: Git, GitHub, Microsoft Office, Google Suite

EXPERIENCE

Vice President at Techno Titans FIRST Robotics Competition Team, Johns Creek, GA

Aug 2020 – May 2024

- Led a team to create Tower Defense and platform type mobile games geared toward the annual theme using the game engine Unity
- Introduced new data collecting and visualization techniques to the team, significantly increasing efficiency in data analysis and strategic decision-making
- Automated spreadsheets with JavaScript to transform large amounts of competition data to visualizations, web scrape using REST API, and involve non-experienced members or other teams through inclusive user experience
- Negotiated with other teams on the strategy of the game, determining which team gets which role in the competition
- Taught new members Java, JavaScript, HTML, CSS, GitHub, Git, Unity, and Romis (small robots)
- Member of mobile app team using React Native and Android Studio to collect data from competition
- Presented multiple times at Titan STEM Nights (teach elementary schoolers STEM with small projects)
- Organized social events for the girls on the team as well as providing mentorship, guidance, and advice

Intern at Challenge Island, Johns Creek, GA

Sep 2023 – Dec 2023

- Web-scraped and visualized data from the Georgia Department of Education database to look for potential customers
- Taught elementary school children STEM-based lessons, engaging them in fun activities

Founder and Owner of ColumnsAndRowsShop, Duluth, GA

Aug 2023 – Aug 2024

- Ran an Etsy online shop selling spreadsheets aimed toward helping students
- Utilized SEO optimization and advertising to market the shop
- Sold 60+ spreadsheets that are automated with JavaScript and Google Apps Script

PROGRAMMING PROJECTS

Arduino Competition Projects

Aug 2022 – May 2024

- 1st at Science Olympiad Regional competition; built and programmed a force sensing resistor to make a mass-scale that accurately measures and displays the masses of different objects; tested on knowledge of electrical components, physics, code, and statistics
- 2nd at Science Olympiad Regional competition; built and programmed an oxidizing-reduction probe sensor to accurately measure and display the concentrations of NaCl in parts per million from 0 to 5000 ppm of different water samples as well as voltage

COMMUNITY ENGAGEMENT AND LEADERSHIP EXPERIENCE

FIRST Lego League and FIRST Tech Challenge Mentor, Johns Creek, GA, Northview High School

Aug 2021 – May 2024

- Volunteered helping middle and elementary school students learn how to code (Java and Scratch) and build a Lego Mindstorm robot for competition
- Supervised a team on how to develop a mobile app with Scratch for the Innovation Award (won regional competition)
- Presented and organized the FIRST Lego League and OnShape CAD summer camps targeted to Middle Schoolers

3DE Program, Johns Creek, GA, Northview High School

Aug 2020 – May 2022

- Collaborated with large businesses to analyze and provide solutions to business-related problems such as employee turnover, advertising and marketing, and supply chain management
- Researched and analyzed data to brainstorm and determine the best solutions such as designing an augmented reality app for The Home Depot or a website to ease customer uncertainty for Delta
- Created professional presentations in PowerPoint and presented in front of representatives from those businesses
- Learned marketing and business concepts as well as soft skills such as communication, teamwork, and public speaking

ADDITIONAL SKILLS AND INTERESTS

Languages: Intermediate proficiency in *French & Mandarin* **Fine Arts:** Piano, Violin, Film, Videography, Creative Writing

Interests: Cartoons and Animations, Strategic Gaming, Hiking, Spreadsheets