

# Ion Li

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## EDUCATION

### Georgia Institute of Technology

Atlanta, GA

*Bachelor of Sciences in Computer Science*

*Aug. 2022 – May 2025*

- Concentrations: Information Internetworks & Intelligence
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Discrete Math, Linear Algebra, Computer Organization & Programming, Objects & Design, Systems and Networks, Networking

## EXPERIENCE

### Data Structures & Algorithms Undergraduate Teaching Assistant

May 2023 – Present

*Georgia Institute of Technology*

*Atlanta, GA*

- Taught & organized recitations for 30+ students on topics ranging from binary search trees to graphing algorithms
- Provided feedback to homework focusing on code efficiency and edge case performance
- Conducted 100+ hours of weekly office hours focused on 1-on-1 sessions teaching students on various course materials and topics

### Software Engineer

January 2023 – Present

*Vertically Integrated Project*

*Atlanta, GA*

- Collaborated in a team of 5 to design telemetry pipelines and radio communication for a weather balloon
- Created telemetry formatter and provider for data collection from 5+ sensors to pipeline and visualize data in real-time using SQLAlchemy, OpenMCT, and Django API endpoints
- Wrote 15+ unit tests in Python to verify correctly formatted data packets gathered from a data simulation
- Initiated custom terminal to handle custom commands using Python, Django, PostgreSQL, and Digi XBEE radios to increase control of balloon by 100%

## PROJECTS

### GTWebDev Project Platform | *MongoDB, Express, React, Node.js, Postman*

September 2023 – Present

- Worked on a team of 6 to create a platform to showcase projects made by students each semester using MERN
- Developed a full-stack web application using with Node.js serving an API with React as the frontend to display 8+ projects for Georgia Tech's Web Development club
- Implemented likes feature for projects using endpoints to collect data from MongoDB collections, increasing community engagement by over 100%
- Visualized 20+ project contributors using GitHub API and Mongoose to extract contributors from databases

### Anime Search Engine | *React, Hooks, Asynchronous API, JSX*

July 2023

- Designed 3 pages using Figma to simplify design process and encourage accessibility by creating responsive layouts
- Created a search functionality using fetch requests to pull data for 1000+ shows with Jikan REST API
- Utilized a global context to share functionality between similar pages and reduced code duplication by 50%

### Critics | *HTML, CSS, JS, TS, React, Express, Node.js, Firebase*

January 2023 – May 2023

- Networked with team of 6 to design and integrate a functional food review website
- Implemented login system to validate, create, and store over 50 users' information compatible with CRUD
- Setup real-time Firebase database to store user images and login information, increasing user engagement by 100%
- Created chat feature allowing 2+ users to communicate in real-time using WebSocket API

### Sweet Retreat | *HTML, CSS, JS, Bootstrap, MySQL, PHP, Heroku*

July 2022 – August 2022

- Crafted website vision, including page layouts & interactive forms in Figma to increase customer interest by 50%
- Integrated employment form feature using HTML and MySQL databases to expedite hiring process by over 200%
- Developed fully responsive accessible pages, adapting to 20+ types of devices and increasing readability

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, TypeScript

**Frameworks:** React, Node.js, Bootstrap, JUnit, Express, Material-UI, Django

**Developer Tools:** Git, Docker, Firebase, MongoDB, VS Code, Visual Studio, PyCharm, IntelliJ, Android Studio, Excel, Postman