

# Guan Ying Goh

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## EDUCATION

### CUNY Hunter College, New York

#### Bachelor of Arts in Computer Science | Minor in Mathematics

Expected: May 2026

- Dean List: GPA 3.5
- Courses: Software Design and Analysis III, Data Structure and Algorithms, Discrete Structure, Big Data, Operating Systems, Database Management, Computer Theory, Computer Architecture, Accounting

## EXPERIENCE

### American Museum of Natural History | Data Ingestion Intern | [SIMPLE Project](#)

May 2025 - Present

- Extract and validate astrometry, photometry, and spectra data from astronomy research paper for integration into the open-source **SIMPLE** database; ingested over 2,000 data entries to date.
- Support development and debugging of data ingestion pipelines to enhance researcher access to complex data.

### Google | Software Engineer Mentee

Mar 2024 – Jun 2024

- Participated in over 10 workshops on coding efficiency and problem-solving, which improved software development skills and strengthened team collaboration
- Gained hands-on mentorship and insights into large-scale engineering practices and agile development workflows.

### DNR Events LLC | Software Engineer Intern

Feb 2024 – Apr 2024

- Led a team of 3 interns to develop key shop features for the mobile application and its API using .NET Core and C#, improving user experience and functionality.
- Implemented XML file parsing to display product information within the app, ensuring up-to-date content for users and integration with the company's backend systems.
- Independently developed and implemented API integrations to link the company website with the mobile application, improving mobile app functionality.

## PROJECTS

### HetioNet: Bioinformatics Data Analysis | Python, Tkinter, MongoDB, Neo4j | [Github](#)

Mar 2025

- Designed and implemented a database system modeling HetioNet to capture complex relationships across biological entities (e.g., diseases, compounds, genes, anatomy).
- Built a high-performance query engine using MongoDB and Neo4j, supporting scalable analysis and retrieval of 1 million biomedical data records from TSV file for drug discovery.

### Driver Fuel Consumption Analysis | Personal Project | Python, Excel | [Github](#)

Jan 2025

- Analyze driver fuel consumption data to detect inefficiencies and fraudulent claims.
- Z-score anomaly detection, Python for data processing, and Excel for calculations
- Built an automated system for anomaly detection and created visual reports for non-technical stakeholders.

### FoodLink | HackCUNY Hackathon | Figma(UI/UX) | [DevPost](#) | [Github](#)

Feb 2024

- Designed the **front-end** experience of a web platform aimed at reducing food waste and improving food bank accessibility.
- Collaborated with a 4-member team, created user flows, wireframes, and high-fidelity prototypes in Figma.

### Girls Who Code X WiCS Hackathon | HTML, CSS, JavaScript | [Github](#)

Dec 2022

- Create an interactive website addressing gender stereotypes and their impact on career barriers.
- Won 1st place out of 10+ teams by leading a team of 4 to build a compelling, socially impactful web platform.

## LEADERSHIP & INVOLVEMENT

### Break Through Tech AI @ Cornell Tech | AI & Machine Learning Fellow | [Git](#)[Hub](#)

Present

- Selected from 3000+ applications and engaged in a 12-month long program.
- Participate in Machine Learning coursework with Cornell faculty and experiential learning from professionals.

### Girls Who Code Club @ Hunter College | Treasurer

Present

- Managed club finances, including tracking income and expenses, budgeting, and preparing financial reports.
- Requested funding for club events and initiatives, ensuring adequate resources for activities and operations.
- Successfully initiated and managed a Discord group with over 100 members to facilitate effective communication and collaboration among Girls Who Code members.

## TECHNICAL SKILLS & AWARDS

**Programming Skills:** C++, C#, Python, HTML+CSS+JavaScript, MIPS Assembly Language

**Frameworks&Database:** PostgreSQL, NoSQL(MongoDB, Neo4j), .NET Maui, Python(Pandas, NumPy), MapReduce

**Certifications:** Google Foundations of Data Science, CodePath Intro to Web Development, Responsive Web Design

**Awards:** 1st place winner – Girls Who Code X WiCS Hackathon