

# BRYAN CHAN

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## EDUCATION

### Stevens Institute of Technology

Expected May 2025

*Bachelor of Science in Computer Science*

- **Overall GPA:** 3.73
- **Relevant Coursework:** Statistics, Theory of Computation, Data Structures and Algorithms, Database Management, Web Programming, Machine Learning, Concurrent Programming, Operating Systems
- **Affiliations:** Badminton Club (Vice President), Alpha Phi Omega (Academics Chair), Tennis Club (President), Castle Point Anime Convention, Blueprint

## TECHNICAL STRENGTHS

### Computer Languages

Python, Java, R, C, C++, JS/TS, Scheme, OCaml, ARM Assembly (x86)

### Protocols & APIs

XML, JSON, REST

### Databases

SQL, Redis, GraphQL, MongoDB

### Frameworks & Other Skills

Node.js/NPM, RStudio, Solidworks, Jupyter

### Operating Systems

Windows, Linux (C system library)

## EXPERIENCE

### Stevens Institute of Technology

September 2023 - Present

*Course Assistant*

*Hoboken, NJ*

- Guided over 400 students through course-related concepts (Python, Java, R) during lab sessions and lectures.
- Graded assignments and exams, providing constructive feedback to enhance student learning.
- Partnered with faculty to design and implement lab activities, resulting in a 20% improvement in student engagement and understanding.

### Stevens Institute of Technology

November 2022 - August 2023

*Undergraduate Researcher*

*Hoboken, NJ*

- Collaborated with a team of Stevens professors and five fellow students to devise a comprehensive nine-month research plan on social networks in the game "EVE Online".
- Leveraged a Python-based parallel processing web scraper to gather a dataset of 72 million killmails.
- Employed R to construct intricate networks mapping positive and negative relationships among players and alliances in online gaming communities.

### C3 Technologies

July 2021 - March 2022

*Data Intern*

*North Brunswick, NJ*

- Devised a relational database using Microsoft Access and harnessed Visual Basic for Applications (VBA).
- Automated data report generation of various customers and tests, speeding up querying by 90%.
- Ensured the maintenance and enhancement of data storage for customer IDs, tank test results, and fuel quality statistics.

## PROJECTS

### Court Reservation Tool || React.js, Express.js, MongoDB

September 2023 - January 2024

- Developed an express server with HTML templating (handlebars) and a MongoDB database in the backend.
- Increased efficiency of court reservations and tournament generation for the Stevens Badminton Club by 50%.

### EMF Rover || Arduino, C++

September 2021 - June 2022

- Designed and constructed a remote-controlled rover equipped with an EMF sensor and an Arduino to accurately locate underground wires.
- Utilized SolidWorks and Octoprint to develop a sophisticated 3D framework, showcasing expertise in CAD design and 3D printing for the project's success.