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

EXPERIENCE

Stevens Institute of Technology   Sep 2023 - Present
Course Assistant - Data Structures, Statistics   *Hoboken, NJ*

- Guided **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   Nov 2022 - Aug 2023
Undergraduate Researcher   *Hoboken, NJ*

- Collaborated with a team of professors and students to devise a 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 networks mapping relationships among players and alliances in online gaming communities.

C3 Technologies   Jul 2021 - Mar 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 customers and tests, speeding up querying by **90%**.
- Maintained and enhanced data storage for over **1500** customer IDs, tank test results, and fuel quality statistics.

PROJECTS

Osu! Beatmap Generator || Jupyter Notebook, Python   May 2024 - Present

- Designed a **Convolutional Neural Network** and a **Long Short Term Memory** model to turn an mp3 file into an osu! beatmap.
- Imported over **5000 existing maps** and created an automated script that exported specific maps into input data.

Court Reservation Tool || React.js, Express.js, MongoDB   Sep 2023 - Jan 2024

- Developed an express server with **HTML templating** 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++   Sep 2021 - Jun 2022

- Designed and constructed a remote-controlled rover equipped with an EMF sensor and an Arduino to locate underground wires with **75%** higher precision rates.
- Utilized **SolidWorks and Octoprint** to develop a sophisticated 3D chassis as a prototype.

TECHNICAL SKILLS

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 & Tools	Node.js/NPM, RStudio, Solidworks, Jupyter, Windows, Linux
Concepts	Full Stack, Software Development, Debugging, Machine Learning, Data Analytics, Relational Databases