

Brian Tieu

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EDUCATION

Princeton University

Expected May 2023

Bachelor of Science in Engineering in Computer Science, Minor in Information Technology

3.93 GPA

- **Awards** — Shapiro Prize for Academic Excellence (Top 3% GPA), awarded Fall 2021
- **Coursework** — Web Applications, Computer Graphics, Distributed Systems, Programming Systems, Web3 & Blockchain, AR/VR, Computational Economics, Data Structures & Algorithms, Logic Design, Discrete Math, Information Security (Spring 2023)

WORK EXPERIENCE

Google

May 2022 – Aug 2022

Software Engineer Intern | Java, Spanner, SQL, BUILD, Protocol Buffers, RPC

Sunnyvale, CA

- Developed a service in **Java** to collect, store, and display metrics across Google's global fleet of production data centers
- Created interfaces to allow quick analysis of stored historical snapshots and built pipelines to handle large amounts of data
- Parallelized the service using asynchronous and concurrent programming, which is run nightly by a cron job

Microsoft

May 2021 – Aug 2021

Software Engineer Intern | React, TypeScript, GraphQL, Figma, Git, Azure DevOps

Redmond, WA (remote)

- Developed 4 Microsoft Teams meeting extensions in **React** to enable live video streaming from Teams to 4 third-party platforms
- Implemented robust user experience and secure authentication by leveraging third-party **REST APIs** and internal SDKs
- Designed high-fidelity user flows in **Figma**, wrote unit tests and documentation, and championed accessibility and inclusion

Nautilus Software Technologies

Dec 2020 – Jan 2021

Software Engineer Intern | JavaScript, Node.js, Git

Hong Kong (remote)

- Developed an [AI chatbot script](#) using **JavaScript** to teach logic design fundamentals to advanced high school students

Princeton University Computer Science Department

Sep 2020 – May 2022

COS226 (Algorithms & Data Structures) & COS126 (Intro to CS) Teaching Assistant

Princeton, NJ

- Prepared and hosted weekly hour-long small-group discussions with 30 student attendees
- Assisted students in debugging Java programming assignments during dedicated one-on-one office hours, for 4 hours weekly

PROJECTS

Augmented Reality Live Captioning

 | JavaScript, Python (Flask), Java, SQLite3, HTML, CSS, Git

Dec 2022

- Developed networked web and Android applications to transform Google Glass into a real-time transcription and translation tool
- Integrated Glass's hardware gestures as software input mechanisms. Enable selection of spoken input and output languages
- Leverage Web Speech and Google Translate APIs to achieve high transcription and translation accuracy

Lawnmower Lunacy

 | JavaScript (Three.js), Git

Dec 2022

- Led team of 4 in developing an interactive video game, playable in the browser: Mow as much lawn as possible in 60 seconds!
- Implemented random generation of terrain and obstacles, custom object collisions, and settings for detail control and difficulty

Princeton Laboratory Energy Monitor

 | JavaScript (jQuery), Python (Flask), HTML, CSS, Figma, Git

Dec 2021

- Led team of 5 in developing a **Flask** web application to enable university researchers to monitor laboratory energy consumption
- Developed features to display and print weekly reports, convert kW values to USD equivalent, and toggle stateful dark mode

Princeton University 2021 Commencement Issue

 | HTML, CSS, JavaScript, Git

May 2021

- Developed a web project compiling 97 news articles reflecting on the Class of 2021's four years of university life
- Designed paginated media gallery, sticky sidebar, and interactive, automatically scrolling Class of 2021 graduate names list
- First place recipient of the New Jersey Press Foundation's 2021-22 College Newspaper Contest in the Web Project category

OTHER EXPERIENCE

The Daily Princetonian

 — Head Web Development Editor & Senior Web Developer

Sep 2020 – Jan 2023

- Manage and develop dynamic news [web projects](#) using **HTML**, **CSS**, **React**, and **JavaScript**, with over 4000 monthly visitors
- Supervise production of 40 web projects during two-year tenure as Editor. Train and oversee 25 staffers in web development.

bearthumbs

 — Small Business Founder & Sole Proprietor

Aug 2020 – present

- [Crowdfunded \\$4.4k](#) to manufacture and ship original enamel pins and stickers, designed from scratch in **Illustrator** and **Figma**
- Manage personal [Etsy shop](#) with \$720 revenue from 73 sales, while maintaining perfect streak of 100% 5-star reviews

SKILLS

Proficient in **Java**, **Python** (NumPy, Flask), **JavaScript** (React, jQuery, TypeScript), **HTML**, and **CSS**

Experience with **Golang**, **SQL**, and **C**