

# Charles Yu Wu

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## EDUCATION

**Drexel University**

**Philadelphia, PA**

**Bachelor of Science in Computer Science, Minor in Mathematics** Anticipated Graduation: *June 2026*

**Relevant Coursework:** Computer Programming, Introduction to Software Engineering, Advanced Prog. Tools & Techniques, Discrete Mathematics, Multivariate Calculus, Linear Algebra

## SKILLS & CERTIFICATIONS

**Programming Languages:** Python, Racket, JavaScript, TypeScript, SQL, Next, React, HTML/CSS, Bash

**Concepts and Tools:** Git, Test Driven Development (TDD), Agile Methodology, VSCode, Excel

**Foreign Languages:** Fluent Portuguese, Fluent Spanish, Conversational Cantonese

## PERSONAL PROJECTS

**To-do List** | *Next.js, TypeScript, Tailwind CSS, Firestore*

*July 2023 – August 2023*

- Developed a webpage with **Next.JS** and **Tailwind CSS** to expedite development time by 100%
- Managed the storage of over 30 user tasks using **Cloud Firestore**, ensuring seamless data access
- Enhanced code reliability by validating the types of variables using **TypeScript**

**Banking Application** | *Java, JUnit, TDD, Git*

*April 2023 – June 2022*

- Built a banking application following the **Test-Driven Development** process ensuring high code quality
- Generated over 140 automated tests to guarantee application functionalities and reliability
- Managed safe code development through consistent **Git** version control usage

**Travel Guide** | *JavaScript, CSS/HTML, Git, Agile Methodology*

*September 2022 – April 2023*

- Collaborated with 3 students to create a travel blog within 6 biweekly sprints
- Promoted the **Agile Methodology** to optimize team performance by 60%

**Expense Tracker** | *Python, MySql*

*July 2022 – August 2022*

- Coded a script allowing users to insert, store, and display expenses to accelerate budgeting by 300%
- Processed more than 400 data entries utilizing an **SQL** database for more efficiency
- Implemented 5 different ways of displaying the data to facilitate analysis

## EXPERIENCE

**University of Pennsylvania**

**Philadelphia, PA**

*Housekeeping Facility Operations Analysis Co-op*

*April 2023 – September 2023*

- Programmed algorithms to enhance data processing and analysis workflows within **Excel** sheets
- Conducted data quality checks ensuring integrity across large datasets of over 1000 data entries
- Arranged an employee recognition form for 500 employees with email notification

**Luso Presentes**

**São Paulo, Brazil**

*E-commerce Manager*

*March 2021 – July 2021*

- Established an online store to sell over 20 products utilizing Shopify
- Administered business Instagram account with over 1,000 followers to advertise the website

## LEADERSHIP EXPERIENCE

**Society of Asians Scientists and Engineers**

**Philadelphia, PA**

*Marketing Director, Marketing Chair, Mentor*

*October 2022- Present*

- Collaborated with 20 event planning teams promoting the inclusivity of over 300 students
- Designed visual graphics for event advertisements on social media, reaching an average of 500 students
- Created an application to create posting schedules for 15 members and generate Slack reminders

## HONORS & AWARDS

**2020 Gold Medal** - Brazilian Astronomy & Astronautics Olympiad

**2020 Bronze Honor** - International Astronomy and Astrophysics Competition