

# YUAN SHEN TAY

Silver Spring, Maryland

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## EDUCATION

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### University of Maryland

Bachelor of Science, Computer Science  
Minor in Mathematics

**Expected Graduation: May 2023**

Cumulative GPA: 3.38

### Montgomery College Rockville

Associate of Arts, Computer Science

**August 2019 – December 2020**

Cumulative GPA: 4.0

### International Medical University (IMU), Kuala Lumpur

Bachelor of Pharmacy

**August 2015 – April 2019**

Cumulative GPA: 3.07

[Dissertation on Formation of Lipogels from Liquid Paraffin and Aluminum Stearate](#)

### Relevant Course Work

- Artificial Intelligence, Machine Learning, Data Science, Algorithms, Advanced Data Structures, Organization of Programming Languages, Computational Methods, Object-Oriented Programming, Number Theory, Computer Systems

### Technical Skills

- Python, Java, C, C++, SQL, HTML, CSS, OCaml, Ruby, React.js, Rust, git, MATLAB, R, MINITAB, SAS

## WORK EXPERIENCE

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### Mathematics Department University of Maryland

*Math Tutor*

College Park, MD

*September 2021 – December 2021*

- Tutored students on MATLAB and assisted them on their MATLAB homework problems 3 times a week
- Assisted students with their homework problems in algebra and calculus

### Mathematics and Statistics Department Montgomery College

*Student Aide*

Rockville, MD

*January 2020 – September 2020*

- Carried out daily administrative tasks using Microsoft Excel and Microsoft Words
- Helped assist approximately 65 math professors in the department with their daily tasks

### Hospital Sultanah Aminah

*Student Intern*

Johor Bahru, Johor, Malaysia

*November 2018 – December 2018*

- Consulted patients to obtain medical and medication information
- Assisted pharmacist on duty in monitoring patient drug therapies
- Demonstrated and taught patients on how to use medical devices like insulin pens and inhalers

### AMPM Pharmacy

*Student Intern*

Muar, Johor, Malaysia

*April 2018 – May 2018*

- Screened and assembled prescriptions for over 20 patients daily
- Carried out daily inventory management and inspections for prescribed medications
- Consulted customers and provided them with appropriate pharmaceutical information and recommendations

## PERSONAL PROJECTS

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### [Analysis of Income in Maryland](#)

College Park, MD

- Used Python to carry out analysis of income trend across counties in Maryland
- Used machine learning models to explore the correlation between income and poverty rate

### Regular Expression Engine

College Park, MD

- Used OCaml to implement algorithms on NFA creations, NFA/DFA converter and Regex expressions

### [Bi Hana](#)

Silver Spring, MD

- Used Sqaurespace to design and implement the business website
- Helped in maintaining and updating the website

## EXPERIENCE

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### JP Morgan Chase & Co. Software Engineering Virtual Experience

*June 2022*

- Interfaced with data feed and implemented the JP Morgan Chase framework to display the data for traders

### IMU Badminton Club

*President*

Bukit Jalil, Kuala Lumpur, Malaysia

*January 2016 – December 2016*

- Organized weekly badminton sessions for over 80 club members and ensuring that the session ran smoothly
- Organized yearly internal badminton tournament with over 100 participants
- Worked together with Asia Pacific University (APU) Badminton Club to organize a joint badminton tournament

## OTHER SKILLS

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**Languages:** Fluent in English, Chinese and Malay