

YUAN SHEN TAY

Silver Spring, Maryland

240-825-5973 ♦ yuanshentay@gmail.com ♦ <https://shentay.github.io>

EDUCATION

University of Maryland

Bachelor of Science, Computer Science
Minor in Mathematics

January 2021 – May 2023

Cumulative GPA: 3.40

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, Number Theory, Computer Systems, Web Development

CERTIFICATION

Google Data Analytics Professional Certificate

March 2023 – May 2023

- Demonstrated hands-on experience with data cleaning, data visualization, project management, interpreting and communicating data analytics findings.
- Proficiency in spreadsheets, SQL, R and Tableau.
- Completed a case study on how a bike-share navigates speedy success by following the data analysis process.

TECHNICAL SKILLS

- **Data Analysis:** Python, SQL, R, SAS, MATLAB
- **Web Development:** HTML, CSS, JavaScript, React.js, Node.js
- **Other Programming Languages:** Java, C, C++, OCaml, Ruby, Rust

WORK EXPERIENCE

Mathematics Department University of Maryland

College Park, MD

Math Tutor

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

Rockville, MD

Student Aide

January 2020 – September 2020

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

PERSONAL PROJECTS

Analysis of Income in Maryland

College Park, MD

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

Analysis of Diagnostic Measures for Diabetes

College Park, MD

- Used R to carry out analysis of different diagnostic measures that could be used to indicate if a person is diabetic.
- Used MySQL to make queries for the dataset used for analysis and tidying up the data.
- Used a linear model to identify the correlations between the different diagnostic measures and diabetes.

BG Calc

Silver Spring, MD

- Used Flutter to develop an android application used to help with scoring calculations for board games.
- Designed the interface of the app to improve user experience.
- Tested the application with test cases to identify bugs and creating hotfixes for any bugs identified.

Bi Hana

Silver Spring, MD

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

EXPERIENCE

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.

OTHER SKILLS

Languages: Fluent in English, Chinese and Malay