YUAN SHEN TAY

Silver Spring, Maryland
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EDUCATION

University of Maryland   **Expected Graduation: May 2023**
Bachelor of Science, Computer Science   Cumulative GPA: 3.40
Minor in Mathematics

Montgomery College Rockville   **August 2019 – December 2020**
Associate of Arts, Computer Science   Cumulative GPA: 4.0

International Medical University (IMU), Kuala Lumpur   **August 2015 – April 2019**
Bachelor of Pharmacy   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

Technical Skills
- Python, SQL, R, SAS, Java, C, C++, HTML, CSS, JavaScript, OCaml, Ruby, React.js, git, MATLAB, 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
- Helped assist approximately 65 math professors in the department with their daily tasks

Hospital Sultanah Aminah   Johor Bahru, Johor, Malaysia
Student Intern   *November 2018 – December2018*
- 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   Muar, Johor, Malaysia
Student Intern   *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

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

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

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

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