

YI SHENG TAY

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Education

University of California, Los Angeles (UCLA)

B.S. Computer Science

June 2023

GPA: 3.79/4.0

Completed coursework: Algorithms and Complexity; Database Systems; Computer Networks; Computer Vision; Machine Learning; Artificial Intelligence; Operating Systems; Data Structures; Programming Languages; Software Engineering; Bioinformatics; Digital Design Laboratory; Computer Systems Architecture

Technical Skills

Languages: C++, Python, C, HTML, CSS, JavaScript, SQL

Others: Node.js, Git, Tableau, VBA, PostgreSQL, MongoDB, Express.js, Postman, Bash, Linux

Work Experience

Intel

Software Engineer Intern | Pre-Silicon Validation

July 2021 – September 2021

- Collaborated with validation team to establish machine learning initiative for next gen Intel SoC validation
- Developed a reusable Python/pandas/JSON program to extract, preprocess and label gigabytes of data from validation error logs
- Trained supervised machine learning models using scikit-learn to classify failures with >90% accuracy, greatly saving costs by allowing errors to be discovered earlier during pre-silicon validation

Keysight Technologies

Software Engineer Intern | Global Procurement & Materials Dept.

July 2019 – September 2019

- Created programs to increase efficiency of departmental processes in the Procurement Department
- Developed a full-stack Windows Form desktop application with VB.Net, SQL, and HTML to track and automate the manual and error-prone internal order process
- Utilized knowledge of classes and object-oriented programming principles to implement the application
- Designed and implemented multiple VBA programs to aggregate, process, and filter Microsoft Excel data and to generate reports, saving 20 hours per week of manual work

Caritech

Software Intern

June 2017 – June 2017

- Conducted functional testing on software to detect errors and weaknesses
- Debugged MRecords, an accounting/inventory e-management system built using php and mysqladmin

Technical Projects

Weather App | *Web Application*

2022

- Created and deployed app that displays global weather data by making asynchronous HTTP requests to geocoding and real-time weather REST APIs
- Programmed application in Node.js, Express, HTML, CSS, and JSON
- Used dynamic template engine Handlebars to render dynamic web pages and reuse code

California Health Interview Survey (CHIS) Dataset Analysis | *Website*

2021

- Co-led an interdisciplinary AGILE team to analyze health variables and disparities in California
- Analyzed dataset with Python and Tableau to spot correlations and develop data visualizations
- Worked with team members to illustrate data-driven narrative and publish results to custom-built WordPress and HTML website

Affiliations & Awards

- UCLA Upsilon Pi Epsilon Honor Society (Computer Science)

Spring 2020 – present