SERAPHINE GOH

☐ 650-669-9196 | @ seraphinegoh@gmail.com | ♀ sgoh25.github.io ☐ linkedin.com/in/seraphine-goh | ♀ github.com/sgoh25

WORK EXPERIENCE

Western Digital - Senior Software Modeling Systems Design Engineer

July 2020 - Present

Flash Product Engineering – Enterprise SSD – System Architecture

- Optimize performance, power, and latency metrics in enterprise SSD products through Python software modeling and batch simulations on AWS cloud compute (EC2) and storage (S3)
- Build features and internal tools to improve modeling fidelity, increase efficiency of data processing, and identify product enhancement recommendations for cross-functional teams (firmware, memory systems, etc.)
- Contribute to Python codebase with CI/CD practices using git, Jenkins, BitBucket, and Artifactory
- · Process and visualize metric data with data processing tools including pandas, seaborn, and NumPy

Western Digital - Systems Design Engineering Intern

June 2019 - Sept 2019

- Conducted an end-to-end investigation on decreasing workload latency spikes caused by DRAM congestion exhibited in enterprise SSDs
- Reduced congestion by 88.7% by implementing a write-transaction rate limiter in the in-house Python model for SSD performance

CIMB Singapore - Financial Analyst Intern (Research Division)

July 2017 - Aug 2017

- · Analyzed financial performance and wrote initiation reports for potential investment companies
- Compiled company statements to evaluate their financial health, outlook, and earnings potential

PROJECTS

Osusume: A Recommendation Forum | React (JavaScript), Flask (Python), SQLite

- Full-stack web application where users can poll the community and discuss recommendations for various subjects, such as movies, restaurants, and career advice
- Implements features such as authentication, commenting, voting, category tagging, and pagination
- Repo: https://github.com/sgoh25/osusume

The Bready Bakery | React (JavaScript), Next.js, Firebase Realtime NoSQL Database, Firebase Cloud Storage

- An interactive crowdsourced cookbook where users can share their favorite recipes (images, ingredients, instructions)
- Repo: https://github.com/sgoh25/cookbook

EDUCATION

University of California, Los Angeles

M.S in Electrical and Computer Engineering (GPA: 3.6/4.0) B.S in Electrical Engineering; Honors: *cum laude* (GPA: 3.7/4.0) Sept 2018 – June 2020

Sept 2014 - June 2018

• Computer Science: Computer Science I/II, Computer Organization, Machine Learning, Neural Signal Processing, Applied Numerical Computing

- Systems: Systems Design, Embedded Systems, Security for Embedded Systems, Principles of Semiconductor Design
- **Circuits:** Circuits Laboratory I/II, Circuits Theory I/II, Digital Electronic Circuits, Logic Design of Digital Systems, Advanced Digital Integrated Circuits, Design of VLSI Circuits and Systems, Analog Electronic Circuits
- Management: Finance and Marketing for Engineers, Entrepreneurship for Engineers, Business Law

SKILLS

Programming Languages: Python, JavaScript, SQL, C++, Java, bash

Technologies: React, Flask, SQLite, Jupyter Notebook, pandas, seaborn, matplotlib, NumPy **Development Tools:** git, Firebase, Jenkins, AWS (S3/EC2), Github/BitBucket/Gerrit, Artifactory

Other: full-stack web development, CI/CD, scripting, data science, data analysis/visualization, debugging