NHIEN (RICKY) LAM

nhienlam.ricky@gmail.com | linkedin.com/in/nhien-ricky-lam | nhienlam.github.io/MyPortfolio | github.com/NhienLam | (408) 874-5329 | Bay Area, CA

OBJECTIVE: Software Engineering Intern

EDUCATION

San José State University **San José, CA**

Bachelor of Science, Computer Science Graduation: May 2022

- GPA: **3.86/4.00**
- Relevant Coursework: Data Structures and Algorithms, Object-Oriented Design, Server Side Web Programming, Programming in Java, Programming in C++, Computer Systems, Calculus, Linear Algebra, Discrete Mathematics, Applied Probability and Statistics, Technical Writing
- Honors and Awards: President's Scholar, Honor Society of Phi Kappa Phi, Dean's Scholar

SKILLS

- Programming Languages: Java, Python, C++, JavaScript, HTML, CSS
- Technologies: Git, GitHub, Adobe XD, Linux, Eclipse, Visual Studio Code
- Languages: Vietnamese, Hakka, English, and Cantonese

EXPERIENCE

San José State University **San José, CA**

Computer Science Teaching Assistant August 2020 - Present

- Supervise and assist classes of **180** students - Introduction to Data Structures
- Assist instructors in teaching core **Java** programming principles including but not limited to: encapsulation, polymorphism, inheritance, recursion, dynamic arrays, stacks, queues, linked lists, and trees
- Responsible for testing and grading homework and projects
- Give constructive feedback to help students improve Data Structure knowledge
- Interact with students through email addressing their questions and concerns

PROJECTS

Google Search Engine Simulator October 2020 - December 2020

- Independently designed and implemented a micro version of Google Search Engine Simulator using **Java**
- Allowed users to search for keywords and display lists of web URL links
- Allowed users to rank each website based on **4** factors: Frequency, Age, Money, Number of other web pages that link to the page
- Sorted lists of websites using Heapsort and stored in the Priority Queue based on ranks
- Gained experience and knowledge in Heap data structures, Heapsort, Priority Queue, and Web Crawler

Learning Disability Predictor, IBM Hackathon July 2020 - September 2020

- Led a team of **5** to build a web application for teachers to run quick tests on students to predict whether they have learning disabilities using **Python**, **JavaScript**, **HTML**, **CSS,** and **IBM technology**
- Deployed a predictive model with an accuracy up to **93.1%** using **IBM AutoAI** and **Watson Machine Learning**
- Presented the product to a panel of **4** judges from IBM
- Gained experience and knowledge in machine learning, data analysis, IBM technology

To-Do List June 2020 **-** August 2020

- Independently built a To-Do List that maintains priority queue to manage tasks to be done using **Java**
- Performed various tasks: add, remove task, change task's priority, display list, and save list
- Gained experience and knowledge in Queue data structures, Priority Queue, File I/O operations

ORGANIZATION

- SJSU Software & Computer Engineering Society (SCE)