NHIEN (RICKY) LAM

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OBJECTIVE: Software Engineer 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, Operating System, Server-side Web Programming, Programming in Java, Programming in C++, Computer Systems, Computer Architecture, Calculus
- Honors and Awards: President's Scholar (**Top 10%**), Honor Society of Phi Kappa Phi, Dean's Scholar

SKILLS

- Programming Languages: Java | JavaScript | PHP | Python | Ruby | HTML | CSS | Sass | C++
- Technologies: Git version control | GitHub | Linux | Trello | Adobe XD
- Database: MySQL | SQLite | PostgreSQL

WORK 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

iBooking - Hotel Booking Android Application February 2021 - May 2021

- Led a team of **4** to design and build a hotel booking android application using **Java**, **SQLite**, and **Android Studio**
- Allowed users to find available hotels by cities and make secure online reservations through Android phones
- Responsible for implementing user homepage, confirmation page, and data models
- Gained experience and knowledge in leadership, team management, Android development, SQLite, Git

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 Web crawler, Heap data structures, Heapsort, Priority Queue, Git version control

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 and received **Top 3** Completeness and Presentation Award
- Gained experience and knowledge in leadership, machine learning, data analysis, IBM technology, Git version control

ORGANIZATION

- SJSU Software & Computer Engineering Society (SCE)