Khang Nguyen

10581 Mast Avenue, Garden Grove CA 92843 | Phone Number: (714)-709-0746 | Email: knguyen1228@berkeley.edu | https://github.com/khangnguyen211195
LinkedIn: https://www.linkedin.com/in/khang-nguyen-6362b692 | https://khangnguyen211195.github.io/

Education

University of California, Berkeley, Bachelor of Art, Computer Science

GPA 3.6 **Expected Graduation**: Fall 2020

Relevant Coursework:

Efficient Algorithm and Problems	Data Structure and OOP	Computer Security
Machine Learning	Networking & Protocol	Database Systems

Working Experience

Software Development Engineering Intern **June 2020 – August 2020**

Amazon Web Services, Supply Chain **Seattle, WA**

- Optimized APIs in Amazon Web Services, Supply Chain which helps manufactures load the detail information of materials in low latency.
- Completed end-to-end development, from proposing technical designs for the API, implementing, testing and deploying to production for manufactures (Intel, Samsung, Qualcomm...) to manage their supply chain.
- Applied Parallelization, Batch Load feature in DynamoDB to bring down the latency from 4s (TP-90) to 500ms.
- Tools Used: DynamoDB, CloudWatch, X-Ray, Java Stream, Parallel and Multi-threading, Mockito, Cucumber.

Software Development Engineering Intern **June 2019 – November 2019**

Walmart Global eCommerce **Sunnyvale, CA**

- Completed more than one hundred complex test cases and successfully converted Android Automation from the Ranorex framework to Python BDD framework using Appium, Selenium.
- Collaborated closely with Director of QA, and Production Team to make Android Automation on Jenkins run daily with 100% pass rate.
- Constructed API tracking tool for analysis team to control called APIs for all platforms using JSON, Python, and Reacts.
- Replace the existing testing library to a more scalable and maintainable API.
- Continue as part-time contractor to work on Web Automation and Backend Testing API.

A/V & Classroom Technology Support **September 2018 – November 2019**

Haas Business School, UC Berkeley **Berkeley, CA**

- Leveraged a unique, organization-spanning view of the business school's opportunities and challenges to support achievement of the institution's strategic plan.
- Track incidents and solves for all issues, problems or questions related to technology services and computing at the Haas School of Business

Highlighted Projects

MACHINE LEARNING PROJECTS (2020): Built a classifier to that can distinguish spam emails from ham (non-spam) emails by using Logistic Regression and NLP, MNISTS – classify handwritten digits (Top 5% accuracy on class Kaggle), CNN, RNN.

ENCRYPTED DROPBOX (2020): Designed and implemented a secure file storing and sharing system that ensures confidentiality, integrity, and authenticity of the data transacted between different users. Project written in Go.

BACKEND PROJECT (2020): Building entire a Backend System for hospital to track patients' health records using Flask, MongoDB, Redis.

RECIPE MENU (2020): Applied advance JavaScript technologies (NPM, Webpack, Babel and ES6 modules, AJAX) to build a website helped users to find recipe based on their favorite food.

NETWORKING PROJECT (2020): Building Router and Reliable Protocol to keep track the networking traffic followed the 3 ways-handshake and minimum traffic cost. Result: 100% reliable, no duplicate ACK.

DATABASES (2019): Build relational database management system for SQL, implementing B+ tree. Utilized cost estimation and Salinger-style optimization to improve query performance. Finally, implemented lock manager to control concurrency.

Technical Skills

Languages: Advanced: Python, Java, C++. Proficient: SQL, C, Scheme, R, JavaScript.

Libraries: AWS Services (DynamoDB, S3, CloudWatch, Lambda, X-Ray) OpenCV, Matplotlib, NumPy, Pandas, Data Frame, Appium, Selenium, RESTful API, Android Library, Asynchronous JavaScript, async/await, AJAX and APIs, NPM, Webpack, Babel and ES6 modules

Leadership & Extracurricular Activities

George Ciarlo Memorial Scholarship **Top 5 Robert B. Moore Outstanding Leader** **STEM scholarship for college students**