Khang Nguyen

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Objective statement: I'm a senior Computer Science student, looking for a fulltime position in Back-end Software Development

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

Techinical 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, DataTable, Appium, Selenium, RESTful API, Android Library, Asynchronous JavaScript, async/await, AJAX and APIs, NPM, Webpack, Babel and ES6 modules

Working Experience

Software Development Engineering Intern   **June 2020 – August 2020**
 Amazon Web Services, Supply Chain   Seattle

- o   Optimized APIs in Amazon Web Services, Supply Chain which helps manufactures load the detail information of materials in low latency.
- o   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 supply chain.
- o   Applied Parallelization, BatchLoad feature in DynamoDB to bring down the latency from 4s (TP-90) to 500ms
- o   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

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

- o   Leveraged a unique, organization-spanning view of the business school's opportunities and challenges to support achievement of the institution's strategic plan.
- o   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's patient tracking 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.

Leadership & Extracurricular Activities

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