Mohamed Riyas

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PERSONAL STATEMENT

I am a final year student at National University of Singapore (NUS), majoring in Computer Engineering with a passion for developing innovative software solutions to tackle real-world problems. Highly motivated, I have a strong foundation in software engineering principles with an innate ability to further learn and master new technologies. I am looking for a full-time Software Engineering role from May 2022 to further hone my skills and add value to the company.

EDUCATION

National University of Singapore (NUS)   **Aug 2018 – Apr 2022**

- Bachelor of Engineering (Computer Engineering)

- Current Cumulative Average Point (CAP): 4.62 (Highest Distinction)

- Dean's List for AY2019-20 Semester 1 & Semester 2

- Relevant modules completed include CS2102 (Database Systems),

    CS2113T (Software Engineering & Object-Oriented Programming),

    CS2040C (Data Structures and Algorithms) and

    CG4002 (Computer Engineering Capstone Project)

RECENT WORK EXPERIENCE

Full Stack Developer for Student Plagiarism Detection System, WING NUS   **Aug 2020 – Dec 2021**

- Developed and deployed an online full-stack code plagiarism detection system with Rails and Phusion Passenger, currently used by Professors in NUS to spot plagiarized student submissions

- Built new features and optimized backend components to achieve smoother user experience and better plagiarism detection

- Oversaw a team of developers in the design and implementation of new features, enhancement of existing ones and rectification of reported consumer bugs

- Managed time-sensitive updates, including patches and database upgrades

Computer Vision Intern, Rapsodo Inc   **May 2021 – Aug 2021**

- Created a camera calibration web application using QT and OpenCV
- Integrated a YOLO ball detection model to a web application with Flask
- Assisted in the UI design and implementation of a cricket simulator app using QT and OpenGL

Intern Software Development for AutoCAD Mobile, Autodesk Inc   **May 2020 – Dec 2020**

- Developed an end-to-end real-time analytics web application and dashboard with Node.js to collect, analyze and visualize user interactions with AutoCAD Mobile App and provide insights
- Fixed several consumer bugs & made point-changes to the code base for AutoCAD Mobile
- Designed and created new test cases and automation scripts using Selenium WebDriver to perform sanity checks at various development phases and test cycles
- Managed the typescript conversion and electron upgrade of AutoCAD Mobile to version 10

SKILLS SETS & PROFICIENCY

Languages: C, C++, Python, Java, HTML, CSS, JavaScript, PHP, Ruby & Assembly

Libraries & Frameworks: Firebase, Bootstrap, jQuery, Node.js & React

Cloud: AWS, Google Cloud Storage & Azure

App Development: Android Studio, Flutter & App Inventor

Database: MySQL & PostgreSQL

Hardware Design: Arduino Uno, Raspberry Pi, Verilog & Circuit Design

PROJECTS

Entertainment-Pro Web App

- A Java GUI application to search for movies and TV shows along with user personalization, watchlist, blacklist, text spell-checker and auto-completion features.

Context Mobile App

- A mobile application programmed using Android Studio for users to connect their android devices with PCs wirelessly and transfer files between devices seamlessly.

Dance Wearable

- A smart wearable system that comprises of a wrist wearable, backend convolutional neural network and a frontend dashboard to detect users' dance moves along with their relative positions.

Converse Chat App

- A video chat application with message and image support, sound notifications, ability to create multiple rooms and icons to indicate read messages, done using React, Socket.IO and REST API.