

Varun Mohan Jha

SOFTWARE ENGINEER

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Summary

4th-year computer science major at the University of British Columbia with extensive experience in building mobile and web applications. I have gained valuable skills and experiences from a broad range of projects. I aim to work in an educational and challenging environment, utilising my skill and knowledge to the best of my abilities so that I can contribute positively to my personal growth as well as the growth of the organization.

Work Experience

ResearchTube

Kelowna, Canada

SOFTWARE QUALITY ASSURANCE LEAD

May. 2021 - Aug. 2021

- Wrote extensive unit tests in Jest and React Testing Framework for the legacy code of Researchtube.net.
- Developed custom continuous integration Node.js workflow on Git for automating contributor changes to the repository.
- Performed Integration Testing via SMOKE testing methodology to confirm all final deployed builds.
- Wrote end-to-end Integration tests in JavaScript to mimic user interactions for all website features.
- Performed entire System and Acceptance testing before launch.
- Wrote extensive test reports for clients on all testing procedures.

MIE Corporate Holdings Sdn. Bhd

Kuala Lumpur, Malaysia

HR MANAGER ASSISTANT

Jun. 2016 - Jul. 2016

- Performed administrative support tasks, updated company Personnel Records in company database and generated MIS reports.

Projects

WeatherNavBot - AI Chat Bot

- Developed an interactive conversational weather and navigation agent written in Python that utilized various methods and APIs to understand and respond to relevant user questions.
- Utilized Wit-API to train and develop an existing AI that was used to identify specific traits, entities and intents with the user question.
- Utilized Google's API for relevant location, map, time, weather and translation information.

Preet - Ecommerce Website

- Developed an e-commerce website via PHP/HTML which utilized JDBC for a database of product information, pictures, customer information and addresses.
- It simulates an online store where a user can search for and purchase items, create an account, reset a password via email, and see their order history.
- An admin can monitor all purchases and users, create new items to sell, remove items from store, and reset the database to a preset default.

Multi-Threaded Web Scheduler (Implementation in C++ and Java)

- Used semaphores and thread condition variables to handle simultaneous requests. Utilized conditional variables and semaphores to prevent multiple threads from accessing critical segments.

UNIX-Like File System

- Developed a 128Kb file system in C++ similar to the file system of a UNIX machine. The file system was designed to support files of 8Kb and supports 16 files and implements create, delete, read, write, and file list functions.

Skills

Technical Skills: Full Stack Web Development, Software Development, Database Design, Data structures, Agile Development, Data Analysis, Algorithms Analysis, UI/UX Graphic Design, Software Quality Assurance.

Programming Languages: Java, JavaScript, C, C++, Python, CSS, PHP, SQL, Assembly, Git.

Frameworks and Libraries: React/React Native, Django, Docker, Jest, Node.js, Express, MongoDB, MySQL, Express, Ruby on Rails.

Education

UBC (University of British Columbia)

Kelowna, Canada

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Aug. 2017 - April. 2021

Garden International School

Kuala Lumpur, Malaysia

GCE O AND A LEVEL

Aug. 2013 - April. 2017

Community Engagement

Habitat for Humanity International

Kuala Lumpur, Malaysia

STUDENT VOLUNTEER

Jun. 2010 - Jun. 2017

- Project 1: Constructed construct a school and playground for underprivileged kids in rural Sabah, Malaysia.
- Project 2: Built houses and water tanks for the homeless in Medan, Indonesia.