

Roshen Nair

SOFTWARE ENGINEER · COMPUTER SCIENCE MAJOR

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Summary

I'm a 1st Year Computer Science student pursuing a dual-degree from Asia Pacific University (APU) and De Montfort University. I have **2 years of programming experience** working on both the front-end and the back-end. I'm also currently employed as an R&D assistant for the Web Development team at APU's Centre of Technology and Innovation (CTI). At the moment, I'm most interested in opportunities to work on **full-stack development, software architecture and large-scale distributed systems**.

Skills & Passions

Languages JavaScript/Node.js · TypeScript · Python · SQL · HTML5/CSS3 · Go (Golang)

Frameworks ReactJS · AngularJS · Express

Tools/technologies PostgreSQL · MongoDB · Docker · Linux (Ubuntu) · Bash · JSON · Google Firebase

Domains of interest Back-end · DevOps · Databases · Cloud computing · Distributed systems

Work Experience

APU Centre of Technology and Innovation (CTI)

Kuala Lumpur, Malaysia

RESEARCH AND DEVELOPMENT ASSISTANT (WEB DEVELOPMENT)

Mar. 2021 - Present

- Interviewed clients to gather project requirements.
- Developed responsive websites using HTML, CSS, **JavaScript** and WordPress (Divi).
- Implemented custom feedback forms and custom dashboards to view form submissions.
- Performed complete website backups, migrations and on-demand maintenance.
- Carried out technical knowledge sharing sessions with other departments at APU.

Personal Projects

Homina - Contacts Storage Web Application

homina.herokuapp.com

FULL-STACK DEVELOPMENT

May. 2021 - Present

- Utilized **ReactJS** to implement a feature-rich single-page application e.g. reusable components, client-side routing.
- Designed and implemented a 3NF-normalized **PostgreSQL** database to store contact details.
- Implemented a back-end REST API using **Node.js** and **Express**.
- Utilized a **Redis** in-memory cache to implement session-based authentication.
- Implemented both the front-end and the back-end using **TypeScript** to ensure type safety.

Personal Website v1

roshennair.com

FRONT-END DEVELOPMENT

Sep. 2020 - Nov. 2020

- Designed an interactive, responsive, mobile-first web layout using **CSS3**.
- Utilized **AngularJS** to implement dynamic client-side functionality e.g. routing, form validation.
- Implemented a scalable NoSQL cloud database utilizing Cloud Firestore.
- Utilized the AngularFire library and the Firebase API for efficient client-server communication over HTTP.

Education

De Montfort University

Kuala Lumpur, Malaysia

BSc (Hons) IN COMPUTER SCIENCE

Dec. 2020 - Present

- CGPA: 4.0
- Pursued a dual-degree alongside my BSc (Hons) in Computer Science from APU.

Asia Pacific University (APU)

Kuala Lumpur, Malaysia

BSc (Hons) IN COMPUTER SCIENCE

Dec. 2020 - Present

- CGPA: 4.0
- Received a 50% scholarship from APU for outstanding academic achievements

Asia Pacific University (APU)

Kuala Lumpur, Malaysia

FOUNDATION IN COMPUTING & TECHNOLOGY

Sep. 2019 - Sep. 2020

- CGPA: 4.0
- Received a 50% scholarship from APU for outstanding academic achievements