

Education

The University of Hong Kong
Sep 2018 - May 2022

Bachelor of Engineering (Computer Science)
50% Scholarship for 4 years

Highlight Project

StudentBase:

See deployed version at studentbase.app

ReactJS . GraphQL server . Client and Server side Testing . Dockerization . JWT Token Verification . Email Verification

An online community for students to share study materials and resources. Full Stack Development in modern technologies using **TypeScript** with peer code review and emphasis on clean coding practises. Coded a migration script for seamless transfer of over 1600 items from outdated database.

Cozee:

Demo at github.com/uday1331/Cozee

ReactJS . ReactNative . Redux . Firestore . ThreeJS . Expo ARKit

A web and a mobile app aimed at reducing an online furniture buyer's confusion using augmented reality. Hackathon project made in 36 hours. Seamless display integration between mobile and web app using Redux. Placing 3D renders of furniture items in a room using Augmented Reality. Attempted 3D model generation using 2D images.

Work Experience

KM.ON - Software Engineer Intern

Jun 2020 - Present

- Set up an OAuth2 authentication process using ORY Hydra and ORY Oathkeeper in docker to provide a potential open source and cheaper alternative to Auth0.
- Brief experience working with Scala and the Akka actor system on an internal project. Implemented a continuous integration and deployment pipeline using Docker and Kubernetes
- Learning and working on server less technologies like Micronaut and Kafka on KMON-api.
- DevOps experience in Docker, Kubernetes - deploying to cloud, setting up pipelines and local testing/development environments in Minikube.

HEX Trust - Full Stack Software Developer

Dec 2019 - Jan 2020

- Worked with a team of developers on an admin side app, aiming to facilitate operations relating to clients, users and accounts.
- Clean frontend coding practises. Built modular and dynamic React forms for fast and easy integration/editing.
- Set up RESTful end points built on ExpressJS with SQL database management using Knex.
- Reduced server load and bypassed CORS policy by setting up with an Nginx reverse proxy server.

Skills

Programming	Typescript, Scala, JavaScript, Python, C/C++, Java, Unity C#.
Technologies	ReactJS, React-native, NodeJS, Express, GraphQL, Apollo-Client, Akka-framework, Docker, Kubernetes, CLI, Git, MongoDB, MySQL, Nginx, Knex, Unity, AngularJS, JUnit, Micronaut.

Most Notable Awards

1st Runners Up - Fintech Week Hackathon 2019
Gold Medal, Olympiad - All India Mathematics Teachers Association

Positions of Responsibility

Co-founder and Executive Committee Member: Lap-Chee Tech

Director, Community Service: Rotaract Club of HKU Lap Chee College International
Resident Student Advisor - Residential Academic Advisory System at Lap-Chee College