JUN MING OOI

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Eligible for UAE Golden Visa

EDUCATION

New York University Abu Dhabi, UAE　　　　　　　　　　　　　　Sep 2020 – May 2024
- B.S. in Computer Science, Minor in Interactive Media　　　　　　　　*GPA 3.76 / 4.00*

Sunway Cambridge GCE A-Levels, Kuala Lumpur, Malaysia　　　　Jan 2018 – June 2019
- A*AAA in Further Mathematics, Mathematics, Economics, and Physics
- SATs 1550 / 1600

RELEVANT EXPERIENCE

Center for Interacting Urban Networks (CITIES), NYUAD - Abu Dhabi, UAE　　*www.citiesair.com*
Backend Developer　　　　　　　　　　　　　　　　　　　　　　Apr 2023 – July 2024
- Solely designed and developed all server-side logic in **NodeJS** and designed the schema for the **PostgreSQL** database from initial business ideation.
- Configured server environments using **Docker** and deployed on **DigitalOcean** with a Continuous Deployment pipeline using **GitHub Actions**.
- Spearheaded the development of a backend system for an air quality dashboard, supporting 200+ unique monthly users and a public endpoint with 2000+ daily hits.
- Engineered a system to fetch and aggregate IoT sensor data for air quality monitoring across 13+ schools in Abu Dhabi.
- Designed and implemented a **REST API** to support the various needs of multiple stakeholders.

Human-Data Interaction Lab, NYUAD - Abu Dhabi, UAE
Research Assistant　　　　　　　　　　　　　　　　　　　　　　Oct 2021 – May 2022
- Built interactive visualizations for the course Database Management Systems using **React** and **d3.js** for algorithms such as Linear Hashing, Extendible Hashing, Bloom Filters, R-Trees.
- Implemented the visualizations such that they are clear and is used as teaching material for course students.

The Gazelle Newsletter - Abu Dhabi, UAE
Web Chief　　　　　　　　　　　　　　　　　　　　　　　　　　Oct 2021 – May 2022
- Maintained a 5-year-old codebase for a student newsletter that serves over 1000 viewers a month.
- Communicated with management stakeholders to discuss and implement new internal features for administrative uses.
- Handled on-boarding and mentored new cohorts of junior web team members.

Unix Lab, NYUAD - Abu Dhabi, UAE
Unix Lab Monitor & Learning Assistant　　　　　　　　　　　　　Sept 2021 – Dec 2021
- Tutored/assisted a diverse group of over 30 unique students with CS/CPE assignments.
- Provided tailored guidance to students with code and ideation for their classes, projects and internships.
- Taught and provided learning resources for core CS concepts such as trees, hashing and depth-first search.

eMasons Solutions - Kuala Lumpur, Malaysia
Software Developer Intern　　　　　　　　　　　　　　　　　　　Sept 2019 – Apr 2020
- Developed an iOS app for a visitor management kiosk using React Native from scratch, starting from project ideation to project execution.
- Ported a facial-recognition Python library into a reusable module in Swift, later used in multiple projects Taught and provided learning resources for core CS concepts such as trees, hashing and depth-first search.
- Worked in an Agile/Jira based environment, presenting progress and integrating feedback from end clients every two weeks.

PERSONAL PROJECTS

Battleships Clone – Full-stack battleships clone with a slight twist on the gameplay mechanism. Made with **NodeJS**, **Express** and **React**. Supports single player and multi-player.

Tea Blog – A tea-review blog site made using **GatsbyJS** integrated with **Contently**, a headless content management system

SKILLS

- Languages: English, Malay, Hokkien, Mandarin (Conversational)
- Computer Languages: JavaScript/HTML/CSS, SQL, Python, C++
- Frameworks/Tools: NodeJS, ExpressJS, React, DigitalOcean, Docker, Git, Linux, Bash, d3.js
- Others: Photoshop, Illustrator, Figma, Canva, MS Office, Google Suite, Unity, Fusion360