Ong Bing Jue

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Education

National University of Singapore

GRADUATE, BACHELOR OF COMPUTING (HONOURS) IN COMPUTER SCIENCE (CAP 4.29)   **Aug 2018 - May 2022**
- **Computer Science Coursework:** Algorithms & Data Structures, Object-oriented Programming, Parallel Computing
- **Intended Computer Science Focus Area:** Programming Languages, Parallel Computing

Technical Proficiency

Languages	Typescript/Javascript, Java, Python, C, C++, HTML/CSS
DevOps	Vercel, Heroku, Docker, CMake, Kubernetes, Redis
Frameworks	React, NestJs, Spring Boot, Ruby on Rails, VueJs, Typeorm

Experience

Envision Digital International Pte Ltd

BACKEND ENGINEER   **June 2022 - Present**
- Built a rerun tool for generating smart lift remote monitoring system data
- Provided a fix for a legacy task scheduling tool, that doubled system performance and increased data accuracy
- Designed and implemented the backend solution for a fault detection and diagnosis dashboard
- Upgraded the team gateway service improving maintainability and enhanced application security

Envision Digital International Pte Ltd

BACKEND ENGINEER INTERN   **May 2021 - Oct 2021**
- Built a verification tool to check asset and model properties, that reduced hundreds of manhours of manual verification by hand
- Extended and build new endpoints using Java Spring Boot that helped for alerts, measure points and lift maintenance events and fleet view features
- Improve and updated internal regression and integration tests that improved test coverage
- Managed IoT devices through use of the company's AIoT EnOS operating system

EduDrift Pte. Ltd.

FULL STACK DEVELOPER INTERN   **May 2020 - Jul 2020**
- Implemented the design of company's landing page on edudrift.com seen by hundreds of the company's business clients
- Built a scheduler, program forms and a ticketing booking page using Typescript React with Material UI, Formik, Next.js leading up to the company's platform release.
- Designed an extensible database table in postgres with typeorm and created its module, controller and REST api in NestJs for Bookings in an online ticketing platform
- Interacted closely with product team to obtain user requirements and enhanced overall customer satisfaction
- Hosted and deployed Vercel and Heroku projects with Git integrations

Projects

C-Lite evaluator

PAIR DEVELOPER   **Aug 2020 - Dec 2021**
- Build the frontend parser and build AST using ANTLR4
- Implemented function calls and parameter passing for C-Lite evaluator
- *(Skills Learnt):* ANTLR4, Typescript

JLite Toy Compiler

DEVELOPER, TESTER   **Aug 2020 - Dec 2021**
- Build a JLite to ARM compiler for a programming assignment
- *(Skills Learnt):* Java, JFlex, cup, ARM

Extracurricular Activity

NUS Stage

Ex-Vice President, Member   **Aug 2018 - Present**

- Performed and worked as an ensemble in the productions of *A Golden Record 2.0*, *A Disappearing Number* and *Shook* under famous artistic directors
- Set Designer and Improvisor for a comedy show *Panik Mode TV*, *Panik Room 4D*
- Planned, organized training activities and assisted with internal productions