

Ong Bing Jue

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Education

National University of Singapore

YEAR 4 UNDERGRADUATE, BACHELOR OF COMPUTING (HONOURS) IN COMPUTER SCIENCE

Aug 2018 - Present

- **Computer Science Coursework:** Algorithms & Data Structures, Object-oriented Programming, Parallel Computing
- **Intended Computer Science Focus Area:** Programming Languages, Parallel Computing
- **Expected date of graduation:** May 2022

Technical Proficiency

Proficient Languages Typescript/Javascript, Java, Python, C, C++, HTML/CSS

Familiar Languages Ruby, Scala, OCaml, Haskell, Prolog

DevOps Vercel, Heroku, Docker

Frameworks (*proficient*): React, NestJs, Spring Boot (*familiar*): Ruby on Rails, VueJs, Typeorm

Experience

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

Static program analyzer

COMPONENT LEADER, DEVELOPER, TESTER

Jan 2021 - May 2021

- Mirrors real word software engineering environment, working together with 5 other team members to build SPA program
- Initiate and implement a system tester running hundreds of system queries improving team's accuracy
- Designed and wrote a lexer and a handwritten recursive descent parser for parsing thousands of lines of source code
- (*Skills Learnt*): C++, Catch, CMake

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

Travezy

DEVELOPER

Aug 2019 - Dec 2019

- Worked together with 4 other team members to design overall system architecture
- Spearheaded integration of different components to design a low coupled statistics report viewer component
- Developed a statistics report viewer for a travel application with JavaFx and Java
- [Project portfolio](#) and [Personal contributions](#)
- (*Skills Learnt*): Java, JavaFx, Software Engineering Principles, Software Architecture, UML Diagrams

Extracurricular Activity

NUS Stage

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
- Planned, organized training activities and assisted with internal productions

SHINE Children & Youth Services ALPS Odyssey

VOLUNTEER

Jan 2019 - Jan 2021

- Assist children in reading for increased understanding, knowledge and interest for reading