Ong Bing Jue

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Education

National University of Singapore

Year 3 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 to upload new measure point data and update alert information used for the company's data analytics webpage
- 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