

Jia Ying Chow

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Education

National University of Singapore

Aug 2018 - May 2022

BACHELOR OF COMPUTING IN COMPUTER SCIENCE

- Focus Areas: Software Engineering, Programming Languages
- Relevant coursework: Programming Methodology, Software Engineering, Programming Language Implementation
- Participated in NUS Overseas College (Singapore), a 6 months program where students intern in startups and take entrepreneurship courses

Experience

Shopee Singapore

May 2021 - Aug 2021

SOFTWARE ENGINEERING INTERN

- Implemented features for an internal portal that allows non-technical teams to deploy marketing assets to the Shopee app
- Developed a tool to allow non-technical teams to test and validate targeted marketing rulesets in Shopee's backend system
- Collaborated with backend teams to iterate on API specifications prior to feature implementation
- Technologies: React, Typescript, SCSS, Webpack, ESLint, Ant Design

Toppan Ecquaria Pte. Ltd.

Feb 2021 - May 2021

ASSOCIATE SOFTWARE ENGINEER

- Explored integration of AWS Textract, Lambda and S3 to automate PDF text extraction for a PDF document search engine
- Implemented backend APIs in a Flask server to perform text extraction with Apache Tika and upload processed text to AWS ElasticSearch
- Created frontend pages for document uploading, searching and management and integrated the relevant APIs
- Technologies: Flask, Javascript, HTML, AWS ElasticSearch, Apache Tika

Switchco

Jul 2020 - Dec 2020

FRONTEND DEVELOPER INTERN

- Worked on the trading interface of DEMEX, a decentralised exchange for cryptocurrency margin and derivatives trading
- Refactored the visual theming system of DEMEX to be more aligned with Material UI's design patterns
- Participated in usability tests and identified bugs, ensuring that bugs were caught and fixed in a timely manner
- Reduced developers' time spent on manual formatting by configuring automatic linters for the codebases using TSLint
- Technologies: React, Redux, TypeScript, Material UI

Skills

Programming Languages JavaScript, TypeScript, Python, Java, HTML5, CSS, Ruby, SQL, C

Frameworks NodeJS, React, Redux, Express, Ruby on Rails, Flask

Others Git, Heroku, Webpack, ESLint, Vite

Software Projects

Type Inference for Source 1 (<https://github.com/C-likethis123/js-slang>)

- Led a team of 3 to write a type inferencer for Source (a dialect of Javascript) programs in Typescript, that can infer types of constants, functions and conditionals
- Wrote automated test cases using the Jest framework to save time used to test code
- Technologies: Typescript, Jest

To Do List App (<https://github.com/C-likethis123/cvwo-assignment-2019/>)

- Developed a full stack todo list web app where users can add recurring and one-off tasks
- Technologies: React, Ruby on Rails, Vite

Blogger Alternative (in progress) (<https://github.com/C-likethis123/Blogger-Alternative/>)

- Developed a blog web app with Markdown support, where users can write blog posts for Google Blogger
- Technologies: MongoDB, Express, React, NodeJS, Reactstrap

TUI Font Size Picker (<https://github.com/C-likethis123/tui-font-size-picker>)

- Published a npm package that adds a font size picker in an online Markdown editor, receiving 103 downloads within its first week of publication
- Technologies: Webpack, Javascript, ESLint