

# Jia Ying Chow

SINGAPORE | ELIGIBLE FOR H-1B1 VISA

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## Summary

A an adaptable and collaborative software engineer with work experience in places like Indeed, Shopee, and Switchco Labs. Highly interested in functional programming languages and the cryptocurrency space.

## Experience

### Indeed Singapore, Software Developer

Jul 2022 - Mar 2023

- Conceptualised and developed Indeed Anon, a chat app designed to connect jobseekers anonymously for candid discussions about their desired job roles, within 3 months
- Developed full stack feature for reporting chats using React and Java Spring Boot, ensuring Indeed Anon met legal requirements and successfully launched in time
- Implemented A/B tests and logged product metrics in Indeed Anon, resulting in a 100% increase in user matches
- Developed a solution to collect jobseeker information across 24 countries in Indeed's Resume Editor using React, GraphQL and Java Spring Boot. Added unit and end-to-end tests with Jest and Cypress.
- Led a design review to migrate a widely used package away from a legacy codebase into its own repository, outlining steps to test, deploy and inform existing users of the migration

### Shopee Singapore, Software Engineering Intern

May 2021 - Aug 2021

- Implemented features for an internal webapp that non-technical teams use to effectively manage marketing campaigns that are advertised through the Shopee mobile and web app using React and Typescript
- Collaborated with backend teams to iterate and agree on a set of API specifications prior to feature implementation

### Toppan Ecquaria Pte Ltd, Software Engineering Intern

Feb 2021 - May 2021

- Explored integration of AWS Textract, Lambda and S3 to automate PDF text extraction for a PDF document search engine for government agencies to effectively search for documents
- 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

### Switchco Labs, Frontend Developer Intern

Jul 2020 - Dec 2020

- Worked on the trading interface of the first release of DEMEX, a decentralised exchange for cryptocurrency margin and derivatives trading
- Refactored the visual theming system of DEMEX to align with Material UI's design and resolved inconsistencies with frontend component code
- Configured ESLint linters on frontend code bases, reducing >100 linting errors and saving developers' time on manually formatting code
- Implemented search for blockchain transactions, cryptocurrencies and validators in TradeScan, the blockchain explorer for an internally developed blockchain

## Skills

**Programming Languages** Javascript, Typescript, Python, Java, SQL

**Frameworks** React, Redux, NodeJS, Spring Boot, Jest, Cypress

## Projects & Programs

### Jane Street INSIGHT Bootcamp

- Learnt OCaml with Jane Street Engineers and ranked 4th out of 14 participants in the electronic trading competition held in the bootcamp

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

- Collaborated in a 3-person team to write a type inferencer based on the Hindley-Milner algorithm in Typescript, that can infer types of constants, functions and conditionals

### 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 open-source text editor, receiving 103 downloads within its first week of publication

### Sync-Along (<https://github.com/SE-PandP/cs3219-project-ay2122-2122-s1-g6>)

- In a team of 4, built a web app where users can join chatrooms and add songs to a synchronised playlist in real time
- Integrated Redux Toolkit in the frontend React app and refactored the backend to a layered architecture using Typescript

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

- Developed a blogging web app with Markdown support in React and NodeJS, where users can upload blog posts to Google Blogger

## Education

### Bachelor of Computing (Hons.) in Computer Science, National University of Singapore

Aug 2018 - May 2022

- Focus Areas: Software Engineering (Distinction), Programming Languages
- Completed the NUS Overseas College (Singapore) program: a 6 months internship at a startup with entrepreneurship coursework at NUS
- Founded Women in Tech @ NUS Computing, an incubating student interest group that supports diversity and inclusion in NUS Computing