

Patrik Tao

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Education

Lund University

Aug 2019 – Graduating 2024

M.Sc.Eng. Computer Science and Engineering

Lund, Sweden

Track: Software Engineering

LTL Language School

Feb 2019 – Apr 2019

Level B1 in Mandarin Chinese

Shanghai, China

Work Experience

Project Management Intern, Sony, Lund

Feb 2023 – Current

- **Managing prototypes** to ensure adequate allocation for software implementation, testing, verification, traceability, and alignment with targets to prevent resource loss.
- Presented **cost estimations** by analyzing and visualizing data in Excel and PowerPoint, providing business insights for decision-making and project evaluation.
- Establishing copyleft archives to enable development branches for **open-source software** releases, which are uploaded to Sony's [dev page](#).

President, East Asia Student Association, Lund University

May 2022 – Jan 2023

- Managed a student association of ~170 members, leading a team of 30 active members and overseeing all operational aspects, including budget management, grant applications, task delegation, and community outreach.
- Negotiated and maintained relationships with multiple external companies and student organisations.
- Responsible for recruitment and grew active members from 6 to 30.
- Developed and executed new events/marketing strategies which contributed to an 81% increase in memberships.

Student Talent Programme, Tetra Pak, Lund

Full Stack Engineer

Aug 2021 – May 2022

- Developed a **logistics management system** to automate and enhance data storage, accessibility, visualization, and modification of recipes for food & beverage prototypes, used internally by food technologists.
- Built user-friendly dashboards using **React** and **SCSS**, and a REST API with CRUD and authentication using **Express**, **Node.js**, and **AWS S3**.
- Constructed a **PostgreSQL** database on the cloud (Heroku) by implementing an E/R model using **SQL** and deploying it in **Docker** containers.

Data Science Intern

Jun 2021 – Aug 2021

- Developed business insights by analyzing large prototype data in Excel and assessed various IT strategies to reach business objectives.
- Delivered project presentations, roadmaps, technical architectures, and E/R which contributed to the execution of the project.
- Conducted user research, designed prototypes, formulated user stories, constructed requirements, and created an MVP on **Figma**.
- Partnered with data analysts to integrate an API in **PowerBI** which automates benchmarking and data collection from Mintel GNPD.

Software Developer, Arkad, Lund

Mar 2021 – Nov 2021

- Participated in developing the frontend of a web application which enabled chat and video interactions between companies and students at Scandinavia's largest digital career fair during the COVID-19 pandemic. **Tech Stack:** **React**, **Redux**, **Elixir**, **PostgreSQL**, **SCSS**.

Languages: Swedish (Native), English (Fluent), Cantonese (Social), Mandarin (Social), Spanish (Beginner)

Interests: Coding, music production, cooking, travelling, trying out new food, DJ, badminton, workout, football

Skills

Languages

Java (Proficient)
JavaScript/HTML/CSS (Proficient)
SQL (Proficient)
R (Advanced)
Haskell (Advanced)
Python (Intermediate)
Clojure (Intermediate)
C (Beginner)
MatLab (Beginner)

Relevant Technologies

React, Typescript, React Native, NodeJS, Express, Git, PostgreSQL, Bottle, Django, Docker, SQLite, NextJS, AWS S3, Firebase, SCSS, Excel, Powerpoint, Figma

Methodologies

System Design, Software Testing, Agile, Concurrent Computing, UX Design, Databases, Requirement Engineering, Configuration Management, CI/CD

Extracurriculars

- **Member**, Nova Talent (2022)
- **International Mentor**, Lund University (2022)
- **Flow Manager**, Lund Carnival (2022)
- **Head of IT**, Lund University's East Asia Student Association (2021-2022)
- **Accenture's Agile Introduction Course for Students** (2020)
- **Member of Helsingkrona Sorority**, Lund University (2019-current)

Projects

Portfolio (2023-current)

MemberFlow (2022-current)

Developing cross-platform mobile and web applications to address current challenges for student organizations, providing a digital solution for student membership cards and streamlining member management. **Tech Stack:** **Next.js**, **Typescript**, **React Native**, **Firebase**.

EcoFinder (2021)

Designed a user-centered mobile user interface on **Figma** using cognitive and UX practices which aims to help people choose the most environmentally friendly food alternative in Sweden.