

Patrik Tao

Software engineering student focused on building scalable products and providing end-to-end solutions using data.

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Work Experience

Student Worker · **Sony Electronics** Feb 2023 — Present

Summer Intern – Project Management Jun 2023 — Aug 2023

- Draft prototype distribution plans and distribute prototypes for SW implementation, testing, and verification.
- Create Python and Excel VBA scripts for automating ticket and issue management on Jira.
- Manage open-source licence compliances for software update releases
- Drove effort estimations of operative system projects at Lund Site, running cost simulations of various release, outsourcing, and resource allocation programs.
- Led change management triages for products in MR, reviewing proposed changes and weighing decisions against stakeholder impact and market feedback.
- Collaborated with cross-functional teams to track issues, bugs, feature integrations, and development status.

Software Engineer Intern · **Tetra Pak** Aug 2021 — May 2022

- Architected and built a logistics management system to streamline prototyping processes, visualize laboratory data, and efficiently produce lab reports and insights using React, NodeJS, ExpressJS, PostgreSQL, and AWS S3.
- Drafted technical specifications and architectures, data flow diagrams, E/R Models, and SOPs.

Data Scientist Intern · **Tetra Pak** Jun 2021 — Aug 2021

- Delivered technical solutions by assessing business objectives and technology strategies, creating actionable insights with Excel.
- Leveraged an internal API integration for automating data queries and product benchmarks from GNPD.
- Proposed and scoped a logistics management system to issues identified within Accelerator Lab, responsible for prototyping food & beverage ideas for quick market launch.
- Conducted user research to identify user stories, pain points, and requirements and delivered a minimal viable product using Figma.

Extracurriculars

President · **East Asia Student Association** May 2022 — Jan 2023

Head of Information Technology Feb 2021 — May 2022

- Led a student association of around 170 members and its student magazine, supervising a team of 30 coordinators, forming 3 committees, and recruiting 15+ coordinators.
- Set vision and oversaw budgeting, grant applications, task delegation, board meetings, event planning, and community outreach, growing the membership by 81% in just 6 months.
- Negotiated and renewed contracts with 5+ companies.
- Developed a cross-platform web and mobile app that offers a digital solution for membership tracking, purchases, renewals, and student cards, using NextJs, Firebase, and styled-components.

Software Developer · **Arkad** Apr 2021 — May 2022

- Developed the front end for a web application, enhancing video and chat interactions between companies and students during COVID-19, using React, SCSS, and Redux.

Skills

Languages

Java, Javascript, Typescript, SQL, R, HTML, CSS, Python, Clojure, Haskell, MatLab, VBA

Libraries & Frameworks

React, Next.js, React Native, Tailwind, NodeJs, ExpressJs, PostgreSQL, Django, MySQL, Redux, Styled-Components, Sass

Tools & Platforms

Git, GitHub, Heroku, WordPress, Docker, Firebase, Figma, Excel, Powerpoint, AWS S3, Scrum, Pytorch, Scilearn, Pandas

Education

Lund University 2019-2024

Master of Science in Computer Science and Engineering, Software Engineering track, Machine Learning and Interaction Design Minors

LTL Mandarin School 2019

A gap year in Shanghai, Level B1 in Mandarin.

Featured Projects

Carpooling Web App (2023-)

Product Owner. Acting as the bridge between stakeholders, customers, and dev team. Pivotal role in shaping the app's vision, agile workflow, features, backlog, and sprintplan.

Voicy Messaging App (2021)

Developed a business model and created a prototype for an AI-powered voice messaging app addressing the decreased human interaction during COVID-19 to promote more meaningful conversations.

Ecofinder UI (2021)

Designed prototypes, mockups, and a minimal viable product that help you find the most eco-friendly food alternative in grocery stores.

Other Extracurriculars

Nova Talent (2022)

International Mentor at University (2022)

Accenture's Agile Introduction Course (2020)

Member of Helsingkrona Sorority (2019)