Patrik Tao

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Experience

Program Manager Intern

Amazon | Luxembourg | 2024.01 – 2024.05

- Defined product vision/strategy, requirements, definition of metrics, product discovery, prioritization, mvp, and user validation for the spend forecasting tool
- Worked closely with 5 cross-functional teams to align on key parameters, achieving higher data fidelity, granularity, and standardization
- Identified data issues and proposed solutions to improve data workflows and management

Project Management Intern

Sony | Lund | 2023.02 – 2023.12

- Drove cost simulations for release, outsourcing, offshoring programs for software development
- Managed prototypes to optimize resource allocation for development and testing
- Identified 13% cost savings by calculating the minimal cost to develop mobile operative systems.

Software Engineer Intern

Tetra Pak - Lund | 2021.08 – 2022.05

- Designed and developed an inventory management web app from scrap to enhance data accessibility and readability for food technologists to manage food & beverage prototypes
- Used **React**, **ExpressJs**, **AWS S3**, **Docker** and **PostgreSQL**
- Designed requirements, road map, system and database designs, and data flow diagrams

Data Scientist Intern

Tetra Pak | Lund | 2021.06 – 2021.08

- Derived actionable business insights by analysing data to improve prototyping processes
- Integrated a BI tool to enrich benchmarking, leading to faster procurement process
- Scoped and designed a minimal viable product, achieving **91% satisfaction by end users**

Projects – Software

Arkad	Built an app to help companies to connect with students through video and chat interactions using **React**, **Redux**, **Flow**, backed by **PostgreSQL**
Memberflow	Built an app to automate membership management, create digital cards, and streamline payments using **NextJs**, **Typescript**, **Firebase, Stripe** and **Swish API**
Carpooling	Built an app for users to specify travel between two locations and discover the best available carpooling trips using **Vite**, **React**, **Typescript** and **JDBC API**

Projects – Machine Learning

Language translator	Built a character-level **encoder-decoder transformer** to translate a sentence in one language to another language of your choice
House value estimator	Built a house value predictor for different parts of California using **regression trees** with a ID3-implementation

Education

Lund University

MSc in Computer Science and Engineering

Specialisation in Software Engineering

2019.08 – 2024.12

Skills

Coding

Java - Python - JavaScript
HTML - CSS - C - SQL -
R Haskell - Clojure - MatLab

Software Development

Typescript - React - NextJs
NodeJS - ExpressJs - AWS S3
Docker - MySQL - PostgreSQL
Git - Unit Testing - Github
Actions - Figma - Agile Scrum

Machine Learning

PyTorch - Pandas - Skicit-learn
Numpy – Tensorflow
Matplotlib - Regression
Classification

Extracurriculars

- President at East Asia Student Association
- Member at Nova Talent
- International Mentor at Lund University
- Head of IT at East Asia Student Association
- Helsingkrona Nation

Languages

- Native - Swedish, English
- Conversational - Cantonese, Mandarin