

Son Phan

APPLIED MATH & STATISTICS MAJOR · ECONOMICS MAJOR · JAPANESE MINOR · MACALESTER COLLEGE

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Education

General GPA: 3.82 · Graduating May 2021 · Dean's List

Coursework Econometrics · Correlated Data · Mathematical Statistics · Bayesian Statistics ·
Differential Equations · Linear Algebra · Economics of Public Policy

Activities Asian Pacific Month Planning Board · X-ertion Dance Club · Japanese Conversation Circle Leader ·
Econometrics and Probability Theory Teaching Assistant · Independent Research (Statistics)

Experience

3M

Saint Paul, MN

DATA SCIENCE INTERN - FINANCE DATA ANALYTICS TEAM

May 2019 - Aug 2019

- Developed proprietary **time-series forecasting algorithm** and **front-end web application** for divisions' sales
- Automated manual forecasting and reporting processes which took days for each of the several divisions
- Carefully documented work-flow for team to create and deploy data applications in **Flask** and **IIS Server**
- Presented work and consulted to aid other business functions and increase visibility within 3M

Minnesota Wild

Saint Paul, MN

HOCKEY ANALYTICS INTERN - HOCKEY OPERATIONS TEAM

Jan 2019 - May 2019

- Analyzed years of NHL play-by-play data to deliver a research insight for Operations
- Fit a **hierarchical Bayesian regression** to infer difficulty of completing a play
- Presented interface that evaluates player performance based on the difficulty inference model

Lab 651

Saint Paul, MN

SOFTWARE ENGINEER - HOME APPLIANCE API TEAM

Aug 2018 - Jan 2019

- Built and managed **Rails** APIs for Internet of Things devices serving **10,000+ users**
- Extracted and cleaned large unstructured data from **PostgreSQL** and **Redis** databases
- Worked within a **DevOps** environment, delivering software consulting to global enterprises

Jot: Write on Time

Saint Paul, MN

FOUNDER & FULL STACK DEVELOPER - STARTUP

Jun - Aug 2018

- Created a platform for writers to share & critique writing and form online writing circles
- Built a RESTful **Rails** application, utilizing **PostgreSQL** and **React.js** for front-end
- Worked as a **2 person** team through MacStartups, a start-up accelerator program,

Skills

Programming Python · NodeJS · Java · HTML/CSS/JavaScript · Bash

Analytics R/Shiny · Stata · SQL · Tensorflow · Jupyter · Plotly · Matlab

Web & Media Express · D3 · React.js · Django · LaTeX

Projects

Transit Bayes - (sonkphan.com/project/transit-bayes/)

- A hierarchical Bayesian analysis on transit accessibility's impact on real estate price
- Scraped/cleaned transit GTFS data and geocoded home location coordinates
- Work is an extension of **Pilgram, West** from Regional Science and Urban Economics

Transit Shocks and Urban Traffic Congestion

- Capstone research on the effect of transit shutdowns and expansions on surrounding congestion
- Implemented various model approaches to account for spatial dependency and confounding in **R**
- Created comprehensive policy brief on traffic and public transit subdomain
- Utilized data from Uber Movement, AAA, and the Urban mobility report