# Son **Phan**

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

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## Education

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|---|---|
| **General** | GPA: 3.89 · Graduating May 2021 · Dean's List |
| **Coursework** | Econometrics · Correlated Data · Mathematical Statistics · Bayesian Statistics · Differential Equations · Linear Algebra · Money & Banking |
| **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**
- Participated in **outreach and consulting** 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 **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

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|---|---|
| **Programming** | Python · NodeJS · Java · HTML/CSS/JavaScript · Bash |
| **Analytics** | R/Shiny · SQL · Tensorflow · Jupyter · Plotly · Matlab |
| **Web & Media** | Express · D3 · React.js · Django · Ruby on Rails · LaTeX |

## Projects

**Transit Bayes - (sonkphan.com/project/transit-bayes/)**
- A Bayesian analysis on the effect of transit accessibility to real estate price
- Wrangled transit GTFS data files and geocoded home location coordinates
- Work is an extension of **Pilgram, West** from Regional Science and Urban Economics

**Randomness in Sport**
- Scraped disparately formatted sports data from web
- Explores the idea of volatility of match outcomes across the major North American sports
- Learned and implemented a variety of ranking and rating models in **R**
- Preparing for submission alongside Professor Vittorio Addona to sports statistics conferences