LOUIS YE

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EDUCATION

Carleton College   **Northfield, MN**
Computer Science and Economics (M) Mathematics (m), BA, GPA: 3.5   *Sept 2018-Jun 2022*
- **Programming Coursework**: Parallel & Distributed Computing, Natural Language Processing, Programming Languages Design & Implementation, Software Design, Software/Hardware Interface, Algorithms, Probability, Statistical Inference, Linear Algebra, Computability & Complexity

EMPLOYMENT

IBM   **Raleigh, NC (Remote)**
Extreme Blue Software Engineering Intern   *May 2021-Aug 2021*
- Prototyped a dashboard that tracks millions of dollars of shipments within IBM's supply chain that is currently used in production
- Developed SVR and Neural Net models with a 10% MAPE to predict ETAs for IBM's supply chain using Python and Jupiter Notebook
- Built a Carbon Angular dashboard by scraping shipment data from IBM's blockchain into Postgres using typescript and SQL queries
- Deployed Postgres database, Watson Machine Learning, and continuous integration services for the project onto the IBM Cloud
- Pitched the 'GreenLight Dashboard' product to executives and various interest and business groups within IBM on a weekly basis
- Collaborated in a team of 3 SWE and 1 PM intern to architect the product and complete Jira cards using an Agile Design Process
- <u>Utilize:</u> Typescript, Python, SQL, Angular, Postgres, TensorFlow, scikit-learn, Jupiter Notebook, Carbon Design System

Carleton College   **Northfield, MN**
Computer Science Researcher   *Jan 2019-Cur.*
- Coded Exp3, non-contexutal, and contextual Multi-Armed Bandit algorithms to test performance on education data using Python
- Programmed analytical tools for search depth and rule usage in Carnegie Mellon University Apprentice Learner using Python
- Ran K-means, Differential Sequence Mining, and Lasso Regression on behavioral data to predict learning capability using Python
- <u>Utilize:</u> Git, Python, scikit-learn

Harvard Business Publishing   **Boston, MA (Remote)**
Project Management Extern   *Nov 2020-Dec 2020*
- Reduce time by 40% through coding a scraper to automate discovering inconsistent diction within word documents using Python
- Standardized diction and style for over 100 Word documents and PowerPoint slides created by program managers
- <u>Utilize:</u> Smartsheet, Python, Word, Excel

Locl.io   **Portland, OR**
Software Developer Intern   *Nov 2018-Jan 2019*
- Wrote a Python ID3 Decision Tree using data from Google My Business accounts that provides consulting for Portland businesses
- Attended weekly meetings with the founders of Locl.io to discuss progress towards high level objectives
- <u>Utilize:</u> Python

PROJECTS

Personal Website: http:www.louiswhy.me (for additional information and projects)

Pythia (startup)
Co-Founder/Lead Developer   *Mar 2020-Feb 2021*
- Prototyped an iOS financial tool app to test and create algorithms for algotrading using Swift and SwiftUI
- Developed a Python algorithmic trader using linear regression algorithms from sklearn and Alpaca's RESTful API
- Led a team of four and designed an algorithm for the algotrader with a backtested profit of 200% over 2 years
- <u>Utilize:</u> Python, Git, scikit-learn, Alpaca, investpy, yfinance, Sketch, Swift, SwiftUI

Muju Bracelet Engraving (startup)
Co-Founder   *Oct 2019-Nov 2020*
- Designed and laser engraved bracelets with college logos and custom designs using Adobe Illustrator and a laser engraver
- Discussed pricing and conditions for importing agarwood bracelet from China with supplier to maintain an inventory of 20 units
- <u>Utilize:</u> Adobe Illustrator

PATENT

Blockchain to SQL Auto Populator   **Submitted to IBM IP**
Co-Inventor   *Aug 2021*
- Invented a back-end application to auto populate columns in an SQL table using noSQL formatted data extracted from a Blockchain
- Increased *conversion to an SQL format* scalability by reducing required code as more columns are included into the SQL table

SKILLS

Software Languages: (proficient): Python, SQL (familiar): Swift, Typescript, Java, C, R, HTML, CSS
Applications: Atom, IntelliJ, PyCharm, Xcode, Android Studio, GitHub, SourceTree, VSCode, WebStorm
Activities: Carleton Club Tennis (Captain), DevX, Carleton Investment Group, Carleton CS Student Hiring Committee