

John Kitaoka

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TECHNICAL SKILLS

Languages: Python, Java, SQL, C

Tools: Django, Jupyter, MySQL, matplotlib, jQuery, scikit-learn

EDUCATION

- **University of Wisconsin-Madison** Madison, Wisconsin
B.S., Computer Science, B.B.A., Finance, B.B.A., Information Systems GPA: 4.0/4.0; May 2021
 - **Extracurriculars:** UW-Madison Men's Water Polo; Association for Computing Machinery, Student Chapter; Capital Management Club; MadHacks

EXPERIENCE

- **University of Wisconsin-Madison** Madison, Wisconsin
Teaching Assistant Aug. 2019 - Present
 - Held office hours and labs for CS301 - Data Programming I
 - Utilized Google Forms API to develop partner-matching algorithm
- **University of Wisconsin-Madison** Madison, Wisconsin
Data Science Research Assistant May 2019 - Present
 - Worked under SCDIS in collaboration with the city of Madison, Wisconsin, for research on existing multi-million dollar traffic engineering budget and proposed BRT transit system
 - Optimized proposed traffic routing in downtown Madison with scikit-learn learning models and matplotlib visualization, case analysis of user density through regression and k-means clustering
 - Technologies Used: Java, SQL, scikit-learn, matplotlib, Pandas
- **Geotek, Inc.** Stewartville, Minnesota
Data Analytics Intern May 2019 - Aug. 2019
 - Developed metrics calculation software to analyze factory production and efficiency, real-time generation and retrieval of expense reports from SQL databases with Python and batch scripting
 - Built internal site using Bootstrap jQuery, Ajax libraries hosted through company servers
 - Technologies Used: Python, SQL, Visual Basic, jQuery, JavaScript

PROJECTS

- **Jetpack Joyride Neuro-Evolutionary AI** Sep. 2019
Personal Project
 - Generated neural network to learn to play Python implementation of popular mobile game via reinforced learning
 - Tanh-based fitness function to determine weights on character actions for multiple genomes per generation in accelerating randomly-generated environment
 - Activation algorithm to apply genome fitness weight towards movements and strategies to survive as long as possible, favorable strategies passed down to next generation
- **Django Stock Market Viewer** Aug. 2019
Personal Project
 - JavaScript, SQLite with Django framework to search and track real-time share prices on NYSE
 - Ticker search algorithm, customizable home page for individual user accounts
- **VAC-Calculation Algorithm** Jul. 2019
Intern Project, Geotek, Inc.
 - Dynamic search algorithm designed to handle high volume calculations of product expenses to fit a customization-based sales model
 - Efficient parsing of remote SQL databases, interfaced file inputs to a Tkinter GUI for greater accessibility
 - Currently used to track company expenses, providing real-time costs to improve overall expense accuracy by 35.6%