

John Kitaoka

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TECHNICAL SKILLS

Languages: Python, SQL, HTML, CSS, Java

Tools: Jupyter, Django, MySQL, Pandas, LaTeX

EDUCATION

- **University of Wisconsin-Madison** Madison, Wisconsin
B.S., Computer Science, B.B.A., Accounting GPA: 4.0/4.0; Sept 2018 - May 2021
 - **Extracurriculars:** UW-Madison Men's Water Polo; Association for Computing Machinery, Student Chapter; Capital Management Club; MadHacks 2019

EXPERIENCE

- **Teaching Assistant** Madison, Wisconsin
University of Wisconsin-Madison, Department of Computer Science Aug. 2019 - Present
 - Led help sessions and labs for CS301 - Data Programming I
 - Utilized Google Forms API to develop partner-matching algorithm
- **Data Science Research Assistant** Madison, Wisconsin
University of Wisconsin-Madison, Department of Computer Science May 2019 - Present
 - Worked in Data Science Labs in collaboration with the city of Madison, Wisconsin
 - Produced reports and visuals for city officials in traffic statistics to use in the annual public city budget hearing for the 2020/2021 fiscal year
 - Performed a statistical analysis on stoplight location in downtown Madison to be used to justify city budget infrastructure cost allocation
 - Technologies Used: Python, SQL, Pandas, LaTeX, Jupyter, Git
- **Data Analytics Intern** Stewartville, Minnesota
Geotek, Inc. May 2019 - Aug. 2019
 - Developed automated metrics calculation software to measure factory production and efficiency, reducing company data storage by 21%
 - Created a Python calculation algorithm that outperformed an independent firm, eliminating the need for third-party software expenses
 - Built internal site using Bootstrap 4 HTML/CSS and jQuery libraries hosted through company servers
 - Technologies Used: Python, SQL, HTML, CSS, Visual Basic

PROJECTS

- **Jetpack Joyride Neuro-Evolutionary AI** Sep. 2019
Personal Project
 - Utilized NEAT-Python to generate an evolving arbitrary neural network to learn to play Jetpack Joyride
 - Tanh-based fitness functions simulates random character actions for twenty genomes per generation in accelerating randomly-generated environment
 - Activation function to apply fitness data towards movements and strategies to survive as long as possible, with pickle implementation to pass down favorable genomes
- **VAC-Calculation Algorithm** Jul. 2019
Intern Project, Geotek, LLC
 - Recursive search tree algorithm designed to calculate an accurate price of labor to fit a customization-based sales model for a manufacturing company
 - Efficient parsing of remote SQL databases, and drag-and-drop file inputs to a Tkinter GUI for greater accessibility
 - Currently used to track company expenses, providing exact costs to improve overall expense accuracy by 35.6%