John Kitaoka

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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*
  - **Awards**: Mayo Clinic Scholarship, Dean's List
  - **Extracurriculars**: Men's Club Water Polo; Capital Management Club, 2018 Team Pitch Winner; MadHacks

Experience

- **University of Wisconsin-Madison** — Madison, Wisconsin
  Teaching Assistant — *Aug. 2019 - Present*
  - Held office hours and labs for Data Programming I (CS301/CS220)

- **University of Wisconsin-Madison** — Madison, Wisconsin
  Data Science Research Assistant — *May 2019 - Present*
  - Collaborated with the city of Madison, Wisconsin, for research concerning traffic engineering in a team-oriented environment, focused on inefficiencies in transit system
  - Predicted future routing in downtown Madison with scikit-learn machine learning models and matplotlib visualization with Python/Pandas, case analysis of user density through regression and k-means clustering

- **Geotek, Inc.** — Stewartville, Minnesota
  Data Analytics Intern — *May 2019 - Aug. 2019*
  - Introduced incentivized production model for employees by developing metrics calculation application for factory efficiency analysis
  - Restructured time clock network to correct labor expenses from an excess of 5.4%
  - Generated cost reports from MS SQL Server databases with Python and batch scripting

- **Prairie Vista Paints, LLC** — Rochester, Minnesota
  Business Development Intern — *Jan. 2018 - Aug. 2018*
  - Produced periodic summaries for multi-faceted revenue model to show trends and current demand to introduce loyalty-based incentives for job bids, implemented through sample testing

Projects

- **Jetpack Joyride Neuroevolution Visualizer**
  github.com/johnkitaoka/neat-jetpackjoyride — *Sep. 2019*
  - Generated neural network learning to play Python implementation of popular mobile game via reinforced learning
  - Utilized fitness model to give weighted feedback to apply to genome movements, with highest scoring strategies bred for further generations

- **Weak-Form Exception Stock Bot**
  github.com/johnkitaoka/wfe-stockbot — *Aug. 2019*
  - Python scripts to automatically buy and sell penny stocks on the stock market using RobinHood API and modified momentum-based trading algorithm

Technical Skills

Languages: Python, Java, SQL, C, Bash, Javascript/HTML/CSS, Visual Basic

Frameworks/Libraries: Pandas, matplotlib, seaborn, descartes, Django, scikit-learn, Numpy, Selenium

Tools: Jupyter, MySQL, MS SQL Server, Git, LaTeX