

EXPERIENCE

- **Undergraduate 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
- **Undergraduate 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 statistical reports and visuals for city officials in traffic statistics to use in the annual public city budget hearing for the 2020/2021 fiscal year
 - Final report will be used to determine and justify budget allocations for the city of Madison
 - Technologies Used: Python, SQL, Pandas, LaTeX, Jupyter, Git
- **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%
 - Automated generation and distribution of Pandas visuals directly from SQL servers
 - 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 function to simulate simple 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 binary search tree algorithm designed to calculate an accurate price of labor to fit a customization-based sales model for a manufacturing company
 - Currently used to track company expenses, providing exact costs to improve overall expense accuracy by 35.6%

EDUCATION

- **University of Wisconsin-Madison** Madison, Wisconsin
Majors: Computer Science, Accounting *Cum. GPA: 4.0/4.0; Sept 2018 - May 2021*
 - **Relevant Coursework:** Programming II, Calculus - Differential Equations, Calculus - Analytic Geometry, Data Programming I, Business Analytics, Discrete Mathematics, Financial Accounting, Managerial Accounting

EXTRACURRICULARS

- **Men's Water Polo** *Sep. 2018 - Present*
University of Wisconsin-Madison

TECHNICAL SKILLS

Languages: Python, SQL, Java, HTML, CSS

Tools: Git, Jupyter, MySQL, Microsoft Office