Jordan White

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Portfolio: https://jordanwhite34.github.io/
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Education

University of Washington | Seattle, Washington
Bachelor of Science, Electrical and Computer Engineering Expected Graduation: June 2024
GPA: 3.5

- Three-time member of the Dean's List
- Prominent coursework: *Machine Learning, Digital Imaging Systems, Computer Programming I, II, Web Programming, Data Structures and Algorithms, Signal and Information Processing Programming, Signal Processing I, II, Intro to AI*

Skills

Languages: *Java, Python, JavaScript, HTML/CSS, JSON, SQL, Prolog, Bash, C, C#, Verilog*
Libraries/Development Tools: *Pandas, NumPy, Docker, ReactJS, Node.js, Git, GitHub, GitLab, ECS, LEX*
Other: *Regression Testing, Code Reviews, Documentation, NLP*

Experience

Inductor | Seattle, Washington
Software Engineering Intern June 2022 – September 2022

- Programmed, tested, and debugged a game called 'Heal' utilizing and contributing to the Perplexity Engine utilizing Natural Language Processing and Prolog to be submitted to the Interactive Fiction Competition
- Accessed logs of user input and game engine output from S3 using Cyberduck
- Pushed images of updated game builds to ECS within AWS with Docker
- Developed regression tests for boundary conditions and general functionality of the game

Systems, Energy, and Automation Laboratories | Seattle, Washington
Research Assistant September 2020 – June 2021

- Garnered project-related information through the study of over 50 research papers
- Generated parameters for laser specifications through CRLB equation manipulation
- Developed experimental setup, wire diagrams, documentation for laser testing using examples found from research

Projects

Interactive Image Processing Tool
Developed a user-friendly Python-based application for real-time image processing using Tkinter and OpenCV. The tool allows users to apply and adjust various image processing techniques, such as blurring, saturation, and exposure, to enhance and modify images.

Brain Connectomes Visualizer
Separates the adjacency matrix of a synaptic connectome into three subplots of adjacency matrices corresponding to sub-networks of Sensory, Inter, and Motor neurons

PCA and Clustering on Image Datasets
Applied PCA and Clustering techniques (k-Means, Gaussian Mixture Model) to high-dimensional image datasets using Python, showcasing expertise in dimensionality reduction, clustering algorithms, and data visualization with libraries like NumPy and scikit-learn.

Hobbies and Interests

- Portrait photography, landscape photography, and astrophotography
- Hiking and backpacking in the Olympic and Cascade mountain ranges