WILL HORD(1) WILL HORD(1)

NAME WillHord@gmail.com

Will Hord - Software Engineer

SYNOPSIS

Will [OPTIONS] COMMAND [ARG...]

DESCRIPTION

Highly motivated software engineer with expertise in computer systems, machine learning, and robotics. Skilled in software development, data analysis, and research to tackle complex problems. **EXPERIENCE**

Software Engineer | University of California Santa Cruz | June 2021 - July 2023

- Sole engineer responsible for the development and maintenance of 50+ websites.
- Leveraged Python, JavaScript, and Bash scripting for site creation to reduce development time and cost by more than 25%.
- Upgraded and optimized more than a dozen Drupal sites and generated reusable PHP skeleton code for custom web modules, improving site performance and scalability.
- Developed new methods for upgrades and migrations to newer Drupal versions, presented solutions to software developers across the University of California system, improved cross-campus collaboration and efficiency.

Machine Learning Research Intern | IBM Watson Research Center | June 2018 - February 2019

- Led two machine learning medical detection research projects for high-risk patients, improving prediction accuracy for psychosis and drug abuse.
- Research peer reviewed, published, and presented at the February 2019 SPIE medical imaging conference.
- Designed and implemented a Python-based program with TensorFlow and Scikit-learn to efficiently assess and compare multiple classification and regression models on large datasets, reducing model selection time and improving overall model accuracy by over 15%.
- Engineered data cleaning and formatting tools that enhanced machine learning model accuracy by 20% through streamlined preprocessing, ensuring more reliable and consistent results.

Technology Office Intern | Pelham School District | May 2019 - June 2019

 Coordinated technical logistics for district-wide virtual STEM conference attended by over 2000 students and educators.

FILES

- * Education
 - Bachelor of Science in Computer Science
 University of California Santa Cruz | September 2019 June 2023
- * Certifications
 - Deep Neural Networks with PyTorch IBM
- * Programming Skills
 - Python, C++, C, React JS, JavaScript, HTML, PHP, SQL, Java, CSS
- * Software & Tools
 - Git, TensorFlow, PyTorch, Scikit-Learn, Apache Web Server, DevOps, Agile Software Development, LaTeX, Django, Arduino, Linux, Data Visualization Libraries (e.g. Matplotlib, Seaborn)

EXAMPLES

- > Publications
 - * Predicting Conversion to Psychosis in Clinical High Risk Patients using Resting-State Functional MRI Features SPIE. Jolie McDonnell, William Hord, et al. March 2019
- > Awards
 - * Westlake Regional Science Fair 3rd Place Testing Quantum Encryption Protocols in Real-life Situations Using Secure Quantum Tunnels - 2018
 - * Eagle Scout Organized and led service project to build an outdoor classroom at local elementary school to teach students about ecological issues and sustainability 2018
- > Memberships
 - * Cruz Hacks Developed an iOS app to detect recyclable materials using machine learning and computer vision January 2020
 - * **Slugbotics** Facilitated the design, materials sourcing, and fabrication of a 15lb BattleBot for use in the February 2022 Sacramento Battle Bot competition 2019 2023
 - * Formula Slug Collaborated with team to design mechanical and electrical components for small electric vehicle using SolidWorks and 3D printing -2019 2021
- > Projects (See Github)
 - * Deep Learning Graph Reader
 - Utilized a Large Language Model (BERT) and Convolutional Neural Network to analyze and extract data from diverse types of graphs (e.g. bar charts, and scatter plots, etc.)
 - * Multithreaded HTTP Server
 - Designed and implemented a high-performance, multithreaded HTTP server in C.
 - Engineered a robust and efficient system capable of handling and processing multiple concurrent HTTP requests using POSIX threads.

AUTHOR