Will Hord

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I am a 4th year undergraduate Computer Science student at the University of California Santa Cruz passionate about complex computer systems with experience in software development and machine learning.s

Experience

University of California Santa Cruz –School of Engineering IT Department **Santa Cruz, CA**
Software Engineering Assistant Developer *June 2021 – Present*

- Built more than 20 and maintaining over 150 websites - managing content, users, and design
- Streamlining website maintenance and development processes, including upgrading more than a dozen Drupal sites and generating PHP skeleton code for custom web modules
- Designing custom Python, JavaScript, and Bash scripts to enhance user experience
- Developed methods on upgrading and migrating sites to newer versions of Drupal and presented to software developers from multiple campuses across the University of California system

IBM Watson Research Center **Yorktown, NY**
Machine Learning Research Intern *June 2018 – February 2019*

- Conducted independent machine learning research projects - published in a scientific research paper presented at the February 2019 SPIE medical imaging conference
- Developed program to test multiple classification and regression models efficiently on a given dataset using Python, TensorFlow, and Scikit-learn
- Engineered tools to clean and format datasets to optimize machine learning model accuracy

Pelham School District **Pelham, NY**
Technology Office Intern *May – June 2019*

- Provided hardware, software, and networking consultation for the district
- Coordinated technical logistics for district-wide virtual STEM conference

Technical Skills

Programming: Python, C++, C, React JS, JavaScript, HTML, PHP, SQL, MATLAB, Java, CSS, R, C#
Software: Git, Apache HTTP Server Management, DevOps, Agile Software Development, LaTeX, Django, Arduino, Windows, MacOS, Linux, TensorFlow

Education

University of California Santa Cruz - Baskin School of Engineering **Santa Cruz, CA**
Bachelor of Science in Computer Science *2019 - 2023*
Relevant Coursework: Data structures and Algorithms, Computer Systems and Assembly Language, Embedded Systems and C Programming, Analysis of Algorithms, Computer Architecture, Computer System Design, Computer Graphics, Artificial Intelligence

Awards & 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*

- **Westlake Regional Science Fair – 3rd Place** – *Testing Quantum Encryption Protocols in Real-life Situations Using Secure Quantum Tunnels* *2018*
- **International Baccalaureate Award** – Developed a school-wide program to integrate technology into classrooms *2019*
- **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 *January 2020*
Developed an iOS app to detect recyclable materials using machine learning and computer vision

Slugbotics *September 2019 - Present*
Facilitating the design, materials sourcing, and fabrication of a 15lb BattleBot for use in the February 2022 Sacramento Battle Bot competition

Formula Slug *September 2019 - 2021*
Collaborated with team to design components for small electric vehicle using SolidWorks and 3D printing