

JARED HECTOR

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EDUCATION

Stanford University | Palo Alto, California

GPA | **3.82**

Symbolic Systems, B.S. Degree | Computer Music, Concentration

December 2020

Dean's Award, Academic Excellence (2017, 2018, 2019 + 2020)

University of Washington | Seattle, Washington

Full Stack Professional Coding Program, December 2021

TECHNICAL SKILLS

Python · Node.js · JavaScript · HTML · CSS · C# · C++ · Java · PostgreSQL · Unity · Chuck

PROJECTS

Node.js Discord Bot

2020-Present

Built a discord bot using Node.js to manage a large (50+ user) server. Includes PostgreSQL integration to manage user info for currency, participation, and personal information storage systems. Constant contact with the userbase allowed for rapid responses to bugs, suggestions, and oversights. Developed proficiency in developer to community interaction and database management.

Poetry Music Visualizer

2020

Built program in Unity using C# and the musical programming language Chuck. Utilized IBM Watson API to analyze the tone and emotion behind individual poetry lines and animates text, images, and music to match a detected emotion. Self-taught 2D Unity to complete the visualizer.

VR Tracking Based Musical Interaction

2020

Designed a cooperative musical game using VR controllers to reward players for miming each other's actions while remaining unseen. Tracked spatial coordinates and integrates Chuck to create a robust sonic experience that fluidly reacts to user movement. Self-taught C#, Unity, Chunity (Chuck + Unity), and VR tracking to finish production.

EXPERIENCE, LEADERSHIP + SERVICE

Computer Science, Math and Science Instructional Tutor

2017-2020

Provide instruction and guidance to Computer Science, Algebra, Statistics, Calculus, Biology and Chemistry students to prepare for exams, lectures and lessons.

Stanford Student Introductory Seminars Student Advisory Board | Board Member

2017-2020

Nominated by professor to serve on Advisory Board for Introductory Seminars, which are required coursework for every Stanford underclassman. As a board member, provide advice, suggestions, student perspectives and identify needs for future Introductory Seminar curriculum.

Interobang Blog | Scientific Contributor

2016-2018

A collection of Stanford undergraduates passionate about scientific communication who want to evoke excitement(!) and curiosity(?) about current scientific topics.

University of Washington | Summer 2017 Research Intern with Dr. David Dichek

Worked in research lab focused on defining role of transforming growth factor beta in aneurysm development. Analyzed data to assess aortic wall integrity in mice with altered transforming growth factor beta signaling. Trained in basic histology techniques and computer-assisted planimetry and applied techniques on experimental samples. Performed statistical data analysis-presented findings to university scientific community.

Fred Hutchinson Cancer Research Center | Summer 2015 Research Intern

Worked full time in a world-renowned Fred Hutchinson Cancer Research lab to identify novel biomarkers of hematopoietic malignancies to learn how they function to promote leukemia development. Conducted polymerase chain reaction, gel electrophoresis, tissue culture, blood separation, karyotyped cells, DNA isolation, and collected data. Presentation on lessons learned to Fred Hutch doctors, researchers and staff.

INTERESTS

Playing Piano, Singing, Composing, Gaming, Skiing, Public Speaking, + Running
Luxembourg, Dual Citizenship