Gabriel M. Mukobi

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Education:
Stanford University - Class of 2022 (Current Freshman) - Major: Computer Science, Artificial Intelligence Track (predeclared)
    Courses: CS 106B: Programming Abstractions, Math 51: Linear Algebra, Multivariable Calculus, and Modern Applications
CSSI-Coursera Program Participant - 2018 - Participated in an online program run by the Google Student Development team and powered by Coursera, including taking an online class in "Java Programming: Principles of Software Design", technical interview prep, and collaboration with other incoming Computer Science students.
Camas High School - 2014-2018 - Cumulative Unweighted GPA: 4.0
Camas High School Math, Science, and Technology Magnet Program - 2014-2018

Activities and Skills:
Programming - software.gabrielmukobi.com
    Python - 5 years experience - automation and scripting, general programming
    JavaScript - 4 years experience - Node.js, React, Vue.js, jQuery, front-end web development, general programming
    Java - 3 years experience - JavaFX GUI design and construction, general programming
    C++ - 3 years experience - DirectX game design, general programming
    PHP - 1 year experience - back-end web development, general programming
    Web development - 3 years experience, full-stack, HTML5, RESTful API design, SQL, responsive design, Webpack, Babel
    Version control systems - 3 years experience, git bash, GitHub, GitLab, open source contribution
Music - music.gabrielmukobi.com
    Anywhere But Here - solo album released June 2018. Written, recorded, mixed, mastered alone. Free download available.
    Groups - Simply 8 rock band 2016-2018; CHS Symphonic, Marching, Brass, Wind Bands 2014-2018, Jazz One 2016-2018
    Instruments - guitar, french horn, trumpet, keyboards, electric bass
Clubs
    Band - Played in various Camas High School bands 2014-2018; elected Band President for the 2017-2018 school year.
    National Honor Society - Was an active member of the Camas NHS 2016-2018; elected NHS historian 2017-2018.

Research
Implementing a High Precision Ultra-Wideband Positioning System for Kinematic Education - 2017-2018
Symbiosis Between Arbuscular Mycorrhizal Fungi and *Lactuca sativa* on Carbon Dioxide Sequestration - 2015-2016
Implementing Heat Conductive Riffles to Lessen Small Scale Thermal Pollution in Developing Nations - 2015-2016
The Measured Efficacy of Water Purification by a Graphene Sand Composite Filter - 2014-2015

Volunteer Experience:
Portland State University, Ralf Widenhorn Lab - June 2017-August 2018
    Interned in Widenhorn PSU physics lab, contributing over 500 hours developing a new high accuracy localized positioning and motion capturing device and implementing it as a learning tool for hands-on college-level physics courses, as an advanced position and motion data collection device for professional athletes, and as a solution for other high precision applications. Scripting and data collection written in Python, GUI in Java with JavaFX.
Kasese Wildlife Conservation Awareness Organization (KWCAO) - September 2016 through Present
    Volunteered an average of 4 hours per month analyzing, updating, and drafting alternative designs and layouts to the Kasese Wildlife Conservation Awareness Organization (KWCAO) website, www.kasesewildlife.org

Selected Awards:
    National Merit Scholarship Program finalist and scholarship winner - 2018
    Camas High School Pride Inside Award - Awarded 2017; Nominated 2017, 2016, 2015
    Camas High School Academic Excellence Award - English 2017, Language 2017, Biology 2016, Math 2015
    MST Magnet Best of Senior Class Award - Camas High School MST Magnet Spring Research Symposium 2018
    1st Place, Embedded Systems - Washington State Science and Engineering Fair 2018
    Intel Excellence in Computer Science Award - SW Washington Science and Engineering Fair 2018
    Mu Alpha Theta National Mathematics Honor Society Award - SW Washington Science and Engineering Fair 2018
    1st Place, Plant Sciences - Washington State Science and Engineering Fair 2016
    2nd Place, McKinstry Built Environment Challenge for Technology - Alaska Airlines Imagine Tomorrow 2016
    NASA Earth Systems Science Award - Washington State Science and Engineering Fair 2016
    2nd Place, Material Engineering and Bioengineering - Washington State Science and Engineering Fair 2015
    Wolfram Mathematica Computational Knowledge Award - Washington State Science and Engineering Fair 2015