**Majok Francis Ring**

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**EDUCATION**

**University of California, Merced 2014 – 2018**

Computer Science and Engineering GPA: 3.2

**RELATED COURSES**

* Data Structures
* Intro to Object Oriented Programming
* Computer Organization and Assembly Language
* Computer Architecture
* Computer Algorithms
* Computer Graphics
* Database Systems
* Introduction to Artificial Intelligence
* Discrete Math
* Linear Algebra and Differential Equations
* Vector Calculus

**SKILLS**

* Programming Experience – Java, C++, C, Python, HTML, CSS, SQL, OpenGL, MIPS Assembly, Android
* Other development – Git, Agile, Blender 3D Modeling, Photoshop, Illustrator, After Effects

**SCHOOL EXPERIENCE**

**PG&E Engineering Service Learning, UC Merced January 2015 – December 2015**

Instructional Labs II Spring 2015

* Collaborated with the UC Merced Engineering Instructional Labs on the design and construction of a next-generation, high-efficiency solar-collector to be used in multiple engineering-heat-transfer instructional labs as well as in UC Merced research projects.

UAV Team Fall 2015

* Worked with interdisciplinary teams to develop a program which utilizes a drone to autonomously fly through a route and take processed images to detect pierce’s disease in crops.
* Developed user interface in java and analyzed areas of concern using NDVI and OpenCV.

**The Quantitative Project, UC Merced September 2014 – Present**

*RNA Sequencing Analysis Web Pipeline January 2016 – Present*

* Worked on developing a web pipeline for laboratory use at UC Merced.
* This project is still in progress and utilizes PHP, HTML, CSS, Python, and SQL.

**Parking Analytics Web Application September 2016 – December 2016**

*Databases Project – CSE 111*

* Program where users can view a graphical layout of the campus parking lot and use analytics tools to view current occupant info (name, age, sex, parking duration) and identify data trends. Uses Java, JavaScript, HTML/CSS, and SQL.

**Recursive Tree Analysis Tool June 2017 – Present**

*Personal Project*

* A program to simplify the analysis of recursive trees by the recursion tree method. Allows users to input a recursive equation such as T(n) = 4T(n/2) + 2n2 and view the output as a detailed recursive tree. Able to view information such as depth, size of sub-problem, number of nodes, workload per node, and total workload per depth. Uses OpenGl/C++.