Czar Parreno

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Education	University of Florida - Gainesville, FL 32611; • 2017- Present (Graduation Date - May 2021) • Bachelor of Science in Computer Science with an Entrepreneurship Minor • GPA: 4.00 | Benacquisto Scholar *Relevant coursework: Programming Fundamentals I-II, Information and Database Systems, Software Engineering, Operating Systems, Computational Linear Algebra, Data Structures and Algorithms, Applications of Discrete Structures, Calculus I-III, Differential Equations.*
Skills	C, C++, C#, JavaScript, HTML/CSS, Java, Python, NodeJS, AngularJS, Express, Quartus, QT, OpenGL, GIT, Linux/Command Line, SQL/SQLite, Unity, Photoshop
Experience & Involvement	University of Florida CISE Academic Tutoring Center (September 2019 – Present) • Tutor undergraduate students with Programming fundamentals, Data Structures and Algorithms, and Software Engineering. 2019 Global Game Jam • Developed a C# game which implemented interactive environments, field of view mechanics, and behavior-tree based AI's in a team setting. Broward College Physics Department • Led a team of student peers in constructing and testing a 3D printer for the Physics Department.
Projects	Memory Manager • Designed a dynamic memory manager capable of allocating and deallocating blocks of memory using Linux syscall. Linux Syscall • Implemented a kernel syscall for an arm64 based Linux system, which assigned processes a security level, and allowed processes to raise or lower the level of other processes. Database Management Application • Designed a user interface in Qt (C++) which allowed users to update and query a SQL database of flower species. OpenGL Raytracing GUI • Utilized OpenGL with C++ to create an application capable of outputting raytraced images using various shading algorithms and different lighting effects. • Created an interactive window which allows users to easily create new scenes and add different objects and lights with real time OpenGL rendering Mean Stack Web Application • Contributed as a full-stack developer for a mentorship matching web application, focusing primarily on the front-end CSS styling with Material Design Lite and back end Express routing E-Commerce Web Scraper • Constructed a backend web server, with Nodejs, to continuously scrape data from Shoppy Ecommerce Ltd. • Incorporated a front-end user interface, with Angular JS and Material Design, to organize and serve the data.