

Byron Garcia

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**I am a software engineer with eagerness to learn, an appreciation for teaching others, and
a respect for those who teach me.**

EDUCATION

University of California, Merced BS Computer Science & Engineering <i>GPA: 2.65</i>	Merced, CA Aug 2016 - May 2020
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COURSE PROJECTS

Breakout <i>C++</i>	Object-Oriented Programming Fall 2018
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- * Two partners and I built replica of breakout, originally on the Atari, using OpenGL
- * Utilized practices such as inheritance, polymorphism, and object classes
- * Replica had fully functioning collision detection and textures layered using graphics library SOIL

Tic Tac Toe <i>C++</i>	Object-Oriented Programming Fall 2018
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- * Created in OpenGL using object-oriented practices
- * Two modes, Player vs Player and Player vs CPU
- * Player vs CPU had CPU choose the first available square, beginning at the leftmost and topmost square

TinyOS - Chat Client & Server <i>nesC</i>	Computer Networks Fall 2018
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- * Implemented messaging capabilities on a simplified version of TCP, Transmission Control Protocol
- * Allowed ability to transmit messages between nodes, breaking up the message into packets
- * Built on the previous protocol implementations: distance vector routing, TCP, neighbor discovery, and flooding

TinyOS - Distance Vector Routing <i>nesC</i>	Computer Networks Fall 2018
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- * Implemented a routing protocol, distance vector routing, to determine the best route from node to node based on distance
- * The routing protocol was assembled upon on previously implemented protocols, neighbor discovery and flooding

Binary Search <i>MIPS</i>	Computer Organization Spring 2018
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- * Constructed a popular search algorithm in a low level assembly language
- * The program sorted a list provided by the user to then perform binary search to find the key
- * Utilized MARS MIPS simulator to run and create the program

RELEVANT COURSES

Data Structures, Computer Organization, Object-Oriented Programming, Computer Networks

PROGRAMMING LANGUAGES

C++	Proficient	C	Proficient	Java	Intermediate
MIPS	Intermediate	nesC	Intermediate	Python	Basic
Tex	Basic				

SKILLS

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|-----------------|--------------------|---------|----------|
| * Collaboration | * Customer Service | * Linux | * Git |
| * Windows | * Bash Terminal | * MacOS | * OpenGL |