

Education

California Polytechnic State University, San Luis Obispo

Bachelor of Science, Computer Science

3.9 GPA, Dean's List: 4 Quarters

Expected Graduation June 2019

Skills

- Programming Languages: C, C#, Java, Python, Assembly, Javascript, HTML, CSS
- Tools - GitHub, Google Drive and Calendar, InkScape, Doodle, Unity, Microsoft Office

Coursework & Projects

- CPE 357 - Systems Programming: Unix Shell, Bash Scripting, C
 - **LZW Compression** - Implemented the LZW algorithm encoder using a trie data structure and improved compression ratios with the addition of bit packing between 9-bit and 15-bit packets and trie recycling
 - **CShell** - Developed a barebones shell capable of executing multiple processes and rerouting the I/O of each process through a pipeline as necessary
 - **Battleship** - Programmed a simulation of the classic board game using a host process and two client processes that communicate via signals passed from between the host and client through pipes
- CSC 348 - Discrete Structures: Logic and Proofs
 - Investigated techniques necessary in order to prove conjectures: direct, contraposition, contradiction, exhaustion, and induction.
 - Analyzed runtime equations and recurrence relations to determine Big O estimates
 - Introduction to Graph Theory: Simple graphs, multigraphs, directed and undirected

Leadership Experience

- **Cal Poly Honors Program Student Mentor**
 - Led group of five freshman Honors students through Honors Program orientation
 - Facilitated discussion on topics of systems thinking, community, and just sustainability
- **Week of Welcome Orientation Leader 2016**
 - Guided a group of 14 Cal Poly freshman through the week of welcome and their transition into the college life and fostered friendships with open communication
 - Facilitated conversations on tough topics (mental health, substance abuse, and stress management) and referred group members to appropriate campus resources
- **Sigma Pi Executive Council Secretary**
 - Oversaw technical aspects of producing weekly meeting agendas and recorded membership attendance
 - Scheduled and secured weekly meeting spaces for the seven members of the Executive Council

Work Experience

Counter Agent, Hertz, (San Luis Obispo, CA)

October 2016 – Present

- Operated rental car software in order to open and close contracts
- Managed car washers in order to have appropriate vehicles ready for a reservation manifest
- Generated daily inventory reports and reconciled software records with physical paperwork