

# **Christian Lopez-Farnes**

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## **EDUCATION**

### **B.S, Computer Engineering**

**May 2019**

San Jose State University, San Jose, CA.

**Relevant Coursework:** Advanced Algorithm Design, Software Engineering, Database Systems, Computer Networks, Operating Systems, Electronics for Computing Systems, Assembly Language Programming, Digital Design I & II, Microprocessor Design, Engineering Statistics.

## **SKILLS**

**Technical:** C++, C, Java, Python, MySQL, SPARK, Scala, CSS3, HTML, MIPS Assembly Language, AGILE Methodology, Data Structures, Object Oriented Programming, UI/UX, Linux, Microsoft Visio.

## **WORK EXPERIENCE**

### **Lead Information Technology Tier II Intern, Citrix, Santa Clara**

**May 2017-Present**

- Manage computer systems and networks in a cloud and virtualization environment for 800 users in western U.S.
- Develop technical reports of incidents and major incidents for documentation of the Citrix IT team.
- Manage virtual Windows environments for over 800 employees.

### **Data Structures & OOP Lab Instructor, San Jose State University, San Jose**

**Jan 2018-Present**

- Instruct, manage and evaluate a class of 35 Computer Engineering students.
- Educate students in the topics of Stacks, Queues, Linked-lists, Binary search trees, Heaps, Hashing, and Tries.

## **PROJECTS**

### **Directed Acyclic Word Graph, Advanced Algorithms SJSU**

**Fall 2017**

- Formed part of a group of three students who used C++ to design and build a Hybrid Data Structure capable of verifying word correctness and give user input on possible alternatives.
- Original project contained 1.2 million nodes for 400,000 English words; The team reduced the memory used by 84% by using AGILE methodology.
- Utilized a Ternary Trie Tree to build the custom dictionary for auto-completion, to improve search times and reduce memory usage the team balanced the Trie and used Hashing to find and delete Cycles.
- Responsible for research of data structures used, building the structures, and managing administrative tasks related to the project.

### **Ride-Sharing Database, Database Management Systems SJSU**

**Spring 2018**

- Formed part of a group of four students who interfaced MySQL and C++ to create a carpooling application for commuters attending SJSU.
- Contributed to Conceptual Design, Logical Design, Table Normalization, and Physical Implementation of DBMS.
- Responsible for normalization and implementation of MySQL tables used in the project.

## **LEADERSHIP/AWARDS**

**Scholarship** Latinos in Technology Scholar: 2016, 2017

**Dean's list** Evergreen Valley College Spring 2016, Spring 2015

### **Student Lab Assistant, Evergreen Valley College, San Jose**

**May 2015-Jan 2017**

- Assembled, handled, and operated 20 mobile telescopes.
- Managed and handled delicate telescopes and equipment in events with over 200 attendees.
- Educated visitors of astronomical events & phenomena in observing sessions.

### **Mathematics & English Tutor, Evergreen Valley College, San Jose**

**Jan 2016-May 2016**

- Educated and helped develop study skills for over 15 students in college mathematic courses.
- Helped students identify challenges and helped them design problem-solving techniques in learning English and college level mathematics.
- Tutored college students in math courses ranging from trigonometry to third semester calculus.