

## Education

- **California State University Fullerton** Fullerton, CA  
*B.S. Computer Science* *August 2016 - December 2018*
  - Graduated with an accumulated g.p.a. of 3.29
  - Concentration in scientific computing and minor in Mathematics

## Skills

**Languages:** C/C++, python, OCaml, L<sup>A</sup>T<sub>E</sub>X, Matlab, x86/Arm asm., django, React, HTML, CSS, SQL

**Workflow:** vim/sublime , bash/zshell, gdb, grep/regular expressions, ssh, scp/sftp, git/version control


**Other computer skills:** Linux (Debian and Redhat based), remote web servers (setting up, securing and maintaining), repair and maintain hardware

**Miscellaneous:** fluent in Spanish, excellent troubleshooting and debugging skills, exceptional problem solving skills, good teams skills

## Work Experience

- **SQA<sup>2</sup>** Los Alamitos, CA  
*Junior QA Analyst* *January 2019 - August 2019*
  - Automate test for quality assurance for software for various companies
  - responsible for planning, execution scheduling and reporting test. Included Back, gray, and white-box test
- **Fullerton College** Fullerton, CA  
*Supplement Instruction Leader* *August 2015 - December 2018*
  - Embedded tutor assigned to various Calculus classes, responsibilities included preparing and delivering an extra hour of instruction for students and assisting students during class
  - Supplemental instruction is entirely voluntary for students to attend and I was able to get 60 - 75% of the students to attend, while the average being 35%.

## Projects

-  **cacheanaheim.com**  
*Website for Cache Travel Anaheim*
  - Website allows travel agents to post specials/packages on-line by themselves
  - Built with django web framework, postgresql, and css grid for styling
  - Deployed on remote fedora 28 server using nginx and gunicorn , secured with SSL certificate
- **Grimm's Conjecture**  
*Python script that analyzes Grimm's Conjecture*
  - Computational Analysis of mathematical conjecture that has not been proven
  - Algorithm has  $O(n^2)$  complexity, the most efficient algorithm found on-line
- **OCaml assembly code generator**  
*CPSC 323 Compilers - functional language project*
  - OCaml program generates pseudo assembly language from a C source code
  - Program is written entirely in a functional style avoiding all assignments
- **Finite difference method for nonlinear differential equations**  
*Matlab script that solves nonlinear differential equations using Newton's iterative method*
  - Algorithm is generalized to solve any equations  $f(x, y, y')$  given an interval  $[a, b]$ ,  $\Delta x = h$ , and bounds  $f(a) = \alpha$ ,  $f(b) = \beta$  . Previous implementations were hard coded for single equation