

# RYAN ROYAL TONG

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## EDUCATION

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**University of California, Davis**  
B.S., Computer Science  
Graduated June 2018

## SKILLS

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### Programming Languages:

C++  
Python  
C  
Java  
R  
JavaScript

### Web Development:

HTML  
CSS  
JavaScript  
TypeScript  
MySQL  
Angular 2  
Node.js  
npm  
Gulp

### Tools:

UNIX  
SSH/PuTTY  
Git  
AWS  
LaTeX

## RELEVANT COURSEWORK

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Data Structures & Algorithms  
Theory of Computation  
Operating Systems  
Web Development  
Scripting Languages  
Artificial Intelligence

## CREATIVE

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Photoshop  
Paint Tool SAI  
MAGIX VEGAS

## EXPERIENCE

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### PowerSchool

June 2018 – Present

#### Software Engineering Intern

- Creating unit tests using Mocha, Chai and Sinon to ensure proper functionality in API endpoints for product microservices.
- Devising effective solutions for various front-end bugs in a web service environment.
- Engaging in daily stand-ups and Agile sprint plannings to actively communicate and collaborate with the development team.

### UC Davis Student Startup Center

September 2017 – December 2017

#### System Administrator

- Worked in a UNIX-based environment to maintain a virtual cloud server under AWS.
- Installed necessary technologies to deploy and manage a NodeBB forum.
- Conducted design elements and implemented JavaScript plugins to enhance user experience.

### UC Davis

October 2017 – December 2017

#### Computer Science Tutor

- Supervised web development seminars to direct students how to create and host personal websites.
- Coordinated with the CS department to organize teaching material for students.
- Helped students through the difficulties of data structures, computational theory and C-family programming.

## PROJECTS

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### flsys

February 2018

- Created a distributed file system for multiple UNIX-family machines to transfer messages between hosts.
- Utilized Python thread-based system to host servers, where every server runs a thread for each of its clients.
- Implemented read, write, open and close commands between clients through a server, given the permissions.

### Medminder

January 2018

- Programmed and designed a user-friendly interface to assist medicine management.
- Utilized Google Firebase to effectively gather and store user information on a real-time basis.
- Created digital assets with Photoshop to incorporate a simple and cohesive user interface.

### ChemQuest

May 2017

- Designed a virtual-reality chemistry lab to introduce education in a unique manner.
- Wrote C# and JavaScript scripts for three-dimensional object behavior in Unity.
- Exported to Android and iOS devices through Google Cardboard.

### WeatherApp

April 2017

- Implemented a carousel graphical interface to view daily weather highlights.
- Extracted and formatted weather information based on zip code using Yahoo Weather API.
- Parsed JSON data queries and strings into the local server database to display for the user.