

# 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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### Web Development:

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

### Unit Testing:

Mocha • Chai • Sinon  
Jasmine • Karma • Phantom

### Programming Languages:

Python  
C++  
C  
Java  
JavaScript  
R

### Tools:

UNIX • Command Prompt  
Git  
SSH • PuTTY  
AWS  
Jira  
LaTeX

## HACKATHON PROJECTS

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### HackDavis Medminder

January 2018

• Programmed and designed a user-friendly interface to assist medicine management.

**Used:** Xcode, Firebase

### AT&T VR/AR ChemQuest

May 2017

• Designed a virtual-reality chemistry lab to introduce education in a unique manner.

**Used:** Unity, Google Cardboard

## EXPERIENCE

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### PowerSchool

October 2018 – Present

#### Associate Software Engineer

- Implementing front-end features to improve user experience through the main login page and user profile.
- Using Ping Identity to configure account credentials through a secure login system.
- Troubleshooting performance issues of service runtimes.

### PowerSchool

June 2018 – October 2018

#### Software Engineering Intern

- Devised effective solutions for various front-end bugs in an Angular 2 environment.
- Created unit tests for TypeScript implementations to ensure proper functionality.
- Engaged 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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### rrtong.info

November 2018 – Present

- Remodeling my personal website using more modern technologies including React.

### 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.

### 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.