

# 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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### Front End:

HTML • CSS • JavaScript  
React • JSX  
Angular • TypeScript  
Sass • jQuery  
Carbon

### Back End:

Node.js • npm • Gulp  
MySQL  
Docker  
Kubernetes • OpenShift  
Redis  
Elasticsearch  
Istio  
AWS

### Unit Testing:

Mocha • Chai • Sinon  
Jasmine • Karma • Phantom

### Programming Languages:

Python  
JavaScript  
C++  
C  
Java

## 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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### IBM

December 2019 – Present

#### Cloud Software Developer

- Developing a web application to display and provision AWS, Azure, and IBM Cloud clusters based on user-inputted fields.
- Creating a Carbon Chart utility that filters and displays all skills within IBM Garage.
- Building an internal web application to track whereabouts of IBM Garage team members using React, Node and Java.
- Using RedHat OpenShift and IBM Cloud Pak technology to establish a Cloud Native environment for clients.

### PowerSchool

October 2018 – November 2019

#### Associate Software Engineer

- Implemented product features and repairing bugs to improve the user experience for students, teachers, parents and district admins.
- Leveraged REST API calls to optimally manage client-server data transfer.
- Utilized local Docker and environmental Kubernetes pods to run microservices.
- Used Ping Identity to configure account credentials through a secure login system.

### PowerSchool

June 2018 – October 2018

#### Software Engineering Intern

- Devised effective solutions for various front-end bugs in an Angular 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 System Administrator

September 2017 – December 2017

- Deployed and maintained a NodeBB forum under an AWS EC2 instance.
- Conducted design elements and implemented JavaScript plugins to enhance UX.
- Supervised web development seminars to direct students how to create and host personal websites.

### UC Davis

October 2017 – December 2017

#### Computer Science Tutor

- Helped students through the difficulties of data structures, computational theory and C-family programming.
- Coordinated with the CS department to organize teaching material for students.

## PROJECTS

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### rrtong.info

February 2019 – Present

- Designing an interface to value both user interactivity and aesthetic web design.
- Constructing an in-browser command line to execute custom commands and apps.
- Using React to showcase personal projects within a contemporary one-page website.

### 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.