

# 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

### 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

#### Software Developer

January 2021 – Present

- Creating internal, full-stack application for team-wide compliance automation.
- Writing automation scripts in Python to improve the organization and maintenance of IBM Cloud services.

### IBM

December 2019 – January 2021

#### Cloud Software Developer

- Developed a web application to display and provision AWS, Azure, and IBM Cloud clusters based on user-inputted fields.
- Created a Carbon Chart utility that filters and displays all skills within IBM Garage.
- Built an internal web application to track whereabouts of IBM Garage team members using React, Node and Java.

### 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

September 2017 – December 2017

#### System Administrator

- 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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### IBM DTE CCP

May 2020 – December 2020

- Designing and developing a single-page form to deploy cloud server clusters from multiple cloud service providers.
- Displaying a dashboard of user clusters with tabled data, cluster actions and access information.
- Adjusting user interface based on multiple user roles and user privileges.