

RYAN ROYAL TONG

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EDUCATION

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

SKILLS

Web Development:

HTML • CSS • JavaScript
Node.js • npm • Gulp
Angular • TypeScript
React • JSX
MySQL
Sass

Unit Testing:

Mocha • Chai • Sinon
Jasmine • Karma • Phantom

Programming Languages:

Python
JavaScript
C++
C
Java

Tools:

UNIX • Command Prompt
Git
SSH • PuTTY
AWS
Kubernetes
Postman
Jira

HACKATHON PROJECTS

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

PowerSchool

October 2018 – Present

Associate Software Engineer

- Implementing front-end features to improve user experience through the main login page and user profile.
- Leveraging API calls to best interact with client-side microservices.
- Using 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 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 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 Computer Science Tutor

October 2017 – December 2017

- 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

rrtong.info

February 2019 – Present

- Remodeling my personal website using modern technologies including React.
- Designing an interface to value both user interactivity and aesthetic web design.

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.