RYAN ROYAL TONG

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EDUCATION

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

SKILLS

Front End:
HTML • CSS • JavaScript
Angular • TypeScript
React • JSX
Sass

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

HackDavis   January 2018
Medminder
• Programmed and designed a user-friendly interface to assist medicine management.
Used: Xcode, Firebase

AT&T VR/AR   May 2017
ChemQuest
• Designed a virtual-reality chemistry lab to introduce education in a unique manner.
Used: Unity, Google Cardboard

EXPERIENCE

IBM   December 2019 – Present
Cloud Software Developer
• Using RedHat OpenShift and IBM Cloud Pak technology to establish a Cloud Native environment for clients.
• Building 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

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.
• Implemented read, write, open and close commands between clients through a server, given the permissions.