

Carson Welty

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Skills

C++, Python, HTML, CSS, JavaScript, SQL, Git, Data Visualization, Linux

Experience

zyBooks, a Wiley brand

TECHNICAL SUPPORT REPRESENTATIVE

Riverside, CA

May 2020 - Current

- Providing technical support for zyBooks' 600,000 students and 3,000 instructors at more than 800 universities
- Troubleshooting software bug reports, investigating reported content errors
- Helping students with accounts/subscriptions and instructors with course setup

UC Riverside Computer Science Department

GRADER

Riverside, CA

Sept. 2019 - Current

- Using and expanding functionality of Python scripts to automate grading tasks
- Grading homework assignments and midterms for undergraduate computer science courses
- Communicating directly with professors, students, and TAs to meet individual preferences and handle issues

Tsinghua University

UNDERGRADUATE RESEARCH ASSISTANT

Beijing, China

June 2019 - Sept. 2019

- Used Python to analyze CPU thermal images under varying workloads
- Contributed to a model used to predict heat maps of future workloads in order to optimize CPU speed heat maps
- Presented my weekly progress for assessment to one of Tsinghua's prestigious computer science professors

UC Riverside School of Business

IT SUPPORT TECHNICIAN

Riverside, CA

Sept. 2018 - June 2019

- Created and documented infrastructure for job position
- Managed lecture-recording software for 15 professors individually
- Hosted video servers for 750 students

Projects

FireWatch

PYTHON

Feb. 2019

HackUCI

- Built a web app using machine learning and over 400,000 data points to predict and visualize where wildfires are most likely to occur next in California
- Focused on the back end development by using Python and Flask to parse data, train an algorithm, and host a web server

Hotel Database Management System

SQL

Dec. 2019

- Designed and implemented a hotel database management system in SQL
- Allowed users to track information about different aspects of hotels (room reservations, maintenance services, employees, customer information, etc)

Leadership

Rose Hack **Operations Lead**, Managing logistics & day-of events for UCR's women-centric hackathon

2020 - 2021

ACM-UCR **Marketing Chair & Mentor**, Collaborated with fellow board members to manage logistics

2019 - 2020

Education

University of California, Riverside

B.S. + M.S. IN COMPUTER SCIENCE

Expected B.S. Winter 2021

Expected M.S. Winter 2022

- Cumulative GPA: 3.47
- Relevant Coursework: Software Engineering, Discrete Math, Data Structures & Algorithms, Machine Learning, Databases, Virtual Reality, Compiler Design, Operating Systems
- Bourns Foundation Engineering Scholarship
- Chancellor's Honor List