Zain Siddiqui

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Education

BS, Computer Science, University of California, Irvine, expected March 2021

Professional Experience

Research Team Lead, University of California, Irvine   July 2020 – Present
- Led 6 programmers in developing a web-based interactive e-book system to allow young children to learn effectively from home.
- Made high level design decisions for the tech design and designated tasks to developers and designers.

Software Engineer Intern, Cerner Corporation   May 2020 – July 2020
- Developed the entire front-end in a team of two for a cloud-based health data exchange platform using React and Redux – hosted on AWS and tested using Jest, WebdriverIO, and Docker.
- The web application allows users to enroll in a cloud-based system that vastly improve patient data availability and is in use by 27,500 Cerner client sites globally.

Software Engineer Intern, Skyworks Solutions, Inc.   January 2020 – July 2020
- Led software architecture plans and completed two critical C# initiatives that allow custom web applications to store hundreds of gigabytes of data in Microsoft Azure.
- Refactored Python code that vastly increased the security of internal web applications by replacing deprecated third-party APIs with vastly more secure OAuth2-based APIs.

Software Research Intern, Cloudberry   June 2019 – September 2019
- Built and trained supervised machine learning models on 1.6 billion (2TB of) Tweets using Python.
- Introduced the use of deep learning techniques to 15+ graduate researchers via the AllenNLP research library – used to identify emotional sentiments and make sense of language nuance in Tweets.

Software Developer Intern, Orange County Healthcare Agency   August 2017 – March 2018
- Developed modern front-end interfaces for 12 web applications using JavaScript, HTML/CSS.
- Increased information retrieval by 200% for hundreds of web applications by migrating back end databases from Microsoft Access to SQL Server for use across both agencies.

Lead Programming Instructor, iD Tech Camps   Summer 2017, 2018
- Taught programming topics, such as OOP in C++ and Java, via custom learning methods.
- Instructed 200+ children/teens and managed/mentored new hire instructors.

Technical Skills

Languages: Java, C#, Python, C, C++, SQL, JavaScript, HTML/CSS, XML

Frameworks: ASP.NET, React, Redux, jQuery, Jest, WebdriverIO

Tools/Systems: Git, Docker, Microsoft Azure, AWS, SQL Server, MySQL, Jira, Crucible

Personal Projects

FabFlix: Java, JavaScript, Bootstrap, jQuery, HTML/CSS, MySQL, Tomcat, AWS
- A Netflix-like full stack web application hosted on AWS as an EC2 instance.
- Features autocompleted search, reCAPCHTA, encrypted database, provides data with RESTful APIs.

CelebDetect: Python (Flask), JavaScript, HTML/CSS, AWS, GCP
- A full-stack machine learning web application that allows users to find instances of a celebrity in a video.
- Integrated Amazon Rekognition image analysis and voice search capabilities via Google Cloud APIs.