**Zain Siddiqui**

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**Education**

**Bachelor of Science, Computer Science**

University of California, Irvine Expected: March 2021

* GPA: 3.45 (Dean’s Honor List Recipient x5)

**Professional Experience**

**Research Assistant**

University of California, Irvine (School of Education) July 2020 – Present

* Developing a web-based interactive e-book system in response to the pandemic, primarily for bilingual children, to ease the transition from in person classroom learning to learning from home.

**Software Engineer Intern**

Cerner Corporation May 2020 – July 2020

Fortune 500 health software company and EHR global market leader

* Integrated cloud-based health data exchange by building a React/Redux front-end and a back-end Java REST API into PowerChart Touch, an EHR solution used in 27,500 health care facilities globally.
* Technologies Used: Java, JavaScript (React/Redux), Jest, WDIO, HTML5/CSS3, Git, Lean-Agile, Jira

**Software Engineer Intern**

Skyworks Solutions, Inc. January 2020 – July 2020

At the forefront of the 5G revolution supplying iPhone chips and high-performance semiconductors

* Led software architecture plans and refactored 13 ASP.NET web applications to store hundreds of gigabytes of data in Microsoft Azure as Binary Large Objects from an on-premise server.
* Development efforts led to a 50% increase in application performance, tens of thousands of dollars saved in server costs, and awards/recognition from direct manager and CIO.
* Technologies Used: C# (ASP.NET Core MVC), Microsoft Azure, Python, SQL, Git

**Software Research Intern**

Cloudberry June 2019 – September 2019

TwitterMap (cloudberry.ics.uci.edu/apps/twittermap): received millions in funding from NSF, NIH

* 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**

County of Orange 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# (ASP.NET Core MVC), Python, C, C++, JavaScript (ReactJS, Redux), HTML5/CSS3

**Tools:** Microsoft Azure, AWS (EC2), Git, SQL Server, MySQL, Jest, WebdriverIO

**Personal Projects**

**FabFlix:** Java, JavaScript, HTML5/CSS3, MySQL, Tomcat, AWS

* A Netflix-like full stack web application hosted on AWS as an EC2 instance (link: FabFlix.store).
* Features autocompleted search suggestions, reCAPCHTA to prevent bot access, use of HTTPS, encrypted passwords, stored procedures, and provides backend data using RESTful APIs.

**CelebDetect**: Python (Flask), JavaScript, HTML5/CSS3, 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.