

# 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 Team Lead

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, Bootstrap, jQuery, 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, reCAPTCHA 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.