





# Zain Siddiqui

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## Education

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

## Technical Skills

**Languages:** Python, Java, C, C#, C++, SQL, JavaScript, JSX, HTML, CSS, Sass, XML

**Frameworks:** React, Redux, ASP.NET, jQuery, Bootstrap, Jest, Enzyme, WebdriverIO

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

## Professional Experience

**Software Engineer Intern**, Cerner Corporation May 2020 – July 2020

- Developed a full stack web application in a team of four for an AWS cloud-based health data exchange platform using Java, React, Redux, and tested with Jest, Enzyme, WebdriverIO, Jenkins, Docker.
- The web application allows users to enroll in a cloud-based system that vastly improves 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 tremendously increased the security of internal web applications by replacing deprecated third-party APIs with more secure OAuth2-based APIs.

**Research Assistant**, Cloudberry (UC Irvine) 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**, County of Orange Health Care 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.

## Personal Projects

**FabFlix:** Java, JavaScript, Bootstrap, jQuery, HTML, CSS, MySQL, Tomcat, AWS

- A Netflix-like full stack web application hosted on an AWS EC2 instance, providing data with RESTful APIs.
- Features autocompleted search, reCAPTCHA, an encrypted database, and load balancing.

**Pixel Perfect:** React, JavaScript, Bootstrap, HTML, CSS

- A web application that allows users to draw and save pixel art.
- Created during Cerner Corporation's annual hackathon, Shiplt. Pixel Perfect won 3<sup>rd</sup> place overall out of 15 total teams and also won the best presentation award.

**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.