

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, 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.