

Anfal Siddiqui

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EDUCATION

Stanford University

September 2020 – Present

- **M.S.**, Computer Science
- **Coursework:** Artificial Intelligence, Deep Learning

University of California, Berkeley

August 2014 – May 2018

- **B.A. Highest Distinction**, Computer Science **GPA:** 4.0
- **Coursework:** Data Structures, Algorithms, Operating Systems, Databases, Networking and Internet Architecture, Computer Security, Machine Structures, Discrete Mathematics and Probability Theory, Linear Algebra, Statistics
- **Honors:** Phi Beta Kappa, Dean's List / Semester Honors (Fall 2014 – Spring 2018), Upsilon Pi Epsilon

TECHNICAL SKILLS

- **Languages:** Java, Python, C, SQL, JavaScript (jQuery), HTML/CSS
- **Concepts:** OOP, REST, Microservices Architecture, gRPC, OData, CI/CD, Asynchronous Computation, Service Mesh, Agile Development
- **Web Technologies:** Node.js, Express, MongoDB, OAuth, MySQL (JDBC), JSP, Bootstrap, Tomcat
- **Tools:** Docker, Kubernetes, Jupyter Notebooks, pandas, NumPy, Apache Spark, Stanford CoreNLP, Maven, Git, Py/JUnit, Jenkins, Mockito, Sprint Boot, Perforce

INDUSTRY EXPERIENCE

Salesforce.com, Inc.

Senior Software Engineer (SMTS)

August 2020 – Present

Software Engineer (MTS)

May 2019 – July 2020

Associate Software Engineer (AMTS)

June 2018 – April 2019

- Key engineer on federated query engine for Customer 360 Data Manager (C360), one of the marquee products launched at Dreamforce 2019.
- Led development of feature allowing customers with multiple Salesforce Orgs to exchange data among them, saving customers \$100,000+ dollars on less performant third-party integrations.
- Oversaw design and development of Java/Picocli-based tool used to manage metadata that drives C360 query/data transformations; reduced metadata update time from 2 hours to < 1 minute.
- Owned full-stack development of components used to customize connection from core Salesforce platform to C360 microservices.
- Regularly present work to customers, C360 tech leads, and executive management.
- Increased code coverage by 30% with additional unit, functional, and integration tests and identified and fixed major security vulnerabilities.

Salesforce.com, Inc.

May – August 2017

Software Engineering Intern

- Led development of Match Quality Framework, a Java/SQL-based developer tool used to evaluate the impact of codebase changes on the quality of the data record matching process for 100K inputs; reduced time required for analysis from one week to < 3 hours and eliminated the need for separate analysis from Data Ops team.
- Created responsive web application for framework using JSP/HTML/CSS/jQuery, allowing full-use of analytical features and providing autocomplete suggestions when choosing runs to view/compare.
- Communicated extensively with 5 senior developers to modify implementation plans and determine additional features and UI elements to prioritize.

Workday, Inc.

May – August 2016

Associate Application Developer Intern

- Co-led project to allow for reporting of specific hotel properties on expense reports, developing tasks for the creation, processing, and approval of reports with data on hotel properties and providing tools for administrators to gather statistics on how their organizations use these properties.
- Created internal tool to automate object model changes to expense framework, reducing development time from one week to 2 minutes.
- Worked closely with product managers and executive stakeholders to identify key features to deliver to customers.

RESEARCH EXPERIENCE

Haas School of Business

January – May 2018

Undergraduate Researcher

- Utilized Natural Language Processing technologies to create an interactive map associating archaeological sites with scholarly papers about them.

- Built upon existing Stanford CoreNLP Java library to extract probabilities that "locations" flagged by NLP algorithms were actually locations and were the primary topic of scholarly paper.
- Used IPython/Jupyter Notebook to algorithmically filter locations reported by CoreNLP that fail to meet pre-determined criteria (minimal references in article, known false positive, etc.).

Berkeley SETI Research Center

September – December 2017

BIDS Junior Research Fellow

- Served as researcher on Breakthrough Listen team, searching for intelligent extraterrestrial communication.
- Experimented with various database technologies available in Google Cloud Platform to determine best fit for SETI.

SafelyYou at Skydeck

February – May 2017

Software Engineering/Research Intern

- Developed software for SafelyYou platform – an AI/Computer Vision-powered service that monitors Alzheimer's patients and alerts authorities when it detects they have fallen.
- Created Python script to perform software updates on monitoring devices, resolve dependency issues, and schedule hourly CRON jobs; required multi-step authorization to prevent unverified users from accessing SafelyYou servers.
- Designed procedure for creating password-protected "virtual users," distinct from registered Linux users, that can read/write to RaspberryPi units over FTP, but are "jailed" in their pre-defined directories.

Berkeley Institute for Data Science

February – May 2016

Undergraduate Research Assistant

- Led "Connector Courses" project, designing course websites for faculty in UC Berkeley Data Science program.
- Created prototype, HTML/CSS-based website that serves as template for all course sites in Data Science program, emphasizing clean UI that allows easy information gathering and scalability across different platforms.

Zilberman Laboratory at UC Berkeley

January – October 2015

Undergraduate Research Assistant

- Researched gene expression in Arabidopsis to determine role of transcriptional pausing and reactivation in evolutionarily-conserved stress-response mechanisms.
- Designed protocols for research efforts, emphasizing high accuracy and laboratory-wide reusability.
- Maintained extensive Excel database of research findings, using aggregated data and calculations to assist with trend analysis and planning.

TEACHING EXPERIENCE

UC Berkeley EECS Department

January – May 2018

Algorithms Course Tutor/Reader

- Held weekly office hours, led homework parties and guerilla sessions, answered students' questions on online forum, and graded weekly problem sets and exams.

UC Berkeley EECS Department

August – December 2017

Discrete Mathematics and Probability Theory Course Tutor/Reader

- Held weekly office hours, led advising sessions for struggling students, and graded weekly problem sets.

UC Berkeley Chemistry Department

August – December 2015

General Chemistry Teacher-Scholar

- Led weekly discussion sections, created prep materials for other teacher-scholars, and held review sessions for exams.

LEADERSHIP AND COMMUNITY INVOLVEMENT

- **Academic Groups:** Upsilon Pi Epsilon (Web Development Committee), Undergraduate Economics Association (Academic Affairs Committee)
- **Professional Organizations:** Salesforce Software Quality Maturity Guild (Team Delegate), Toastmasters International (Chapter Treasurer)