

# Siddharth Vadgama

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A self motivated undergraduate student looking for Full-Time opportunities in the field of Software Engineering

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## EDUCATION

BS - COMPUTER SCIENCE WITH MATH MINOR

DECEMBER 2020

UNIVERSITY OF TEXAS AT ARLINGTON – GPA 3.47

Relevant Coursework – OS, Data Structures and Algorithms, Software Engineering, Machine Learning, Software Project Management, Artificial Intelligence, Multivariate Statistics, OOP, Database Systems and File Structures, Computational Methods, Data Mining, Computer Networks

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## SKILLS

PROGRAMMING LANGUAGES : C++, JAVA, PYTHON, MATLAB

WEB DEVELOPMENT TOOLS : FRONTEND (HTML, CSS, BOOTSTRAP, EXPRESS JS), BACKEND (NODE JS, FLASK), REST API

DATABASES : NOSQL (MONGO DB, DYNAMO DB, FIREBASE ), SQL (MYSQL)

DEVOPS TOOLS : GIT, AWS, CHAI-ASSERTION LIB, MOCHA, SUPertest, JIRA, DOCKER, JENKINS, SLACK

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## PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEERING INTERN

MAY 2019 – JULY 2019

OASYS CYBERNETICS PVT LTD - Chennai, India

- Developed scalable real-time finance analysis end to end platform. Implemented OpenID connect with GraphQL for efficient high volume queries.
- Established data pipeline using Amazon Kinesis, Firehose and S3.
- Followed Oasys software engineering standards, applicable software development methodology and release processes, to ensure code is maintainable, scalable, supportable and demo the software products to stakeholders.

UNDERGRADUATE RESEARCH ASSISTANT

JAN 2018 – MAY 2019

UNIVERSITY OF TEXAS AT ARLINGTON - Arlington, Texas

- Implemented and Tested different cache replacement algorithms (LRU, LFU, ARC, LIRS).
- Calculated HIT and MISS ratio for the replacement algorithms. And Tested the algorithms on different data with different cache sizes.
- Used GNUPlot to compare the results and presented the findings in weekly meetings. More detail is available on <http://xszhao.science/labweb/index.html>

SUPPLEMENT INSTRUCTION MENTOR

SEP 2017 – MAY 2020

UNIVERSITY OF TEXAS AT ARLINGTON - Arlington, Texas

- Assisted a group of Supplemental Instructors (SI) in administrative protocols and procedures.
  - Conducted weekly meetings to help with SI-faculty and SI-student relationship, Organized and gave speeches about product marketing and smart goal settings in accordance with SI job description.
  - Understanding behavioral diversity and exuberating positive leadership were crucial components in facilitating the job position.
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## PROJECTS

INVENTORY MANAGEMENT SYSTEM

*NODE JS | EXPRESS JS | SQL | MOCHA | CHAI*

- Developed a full-stack responsive web-based application in an agile environment. Used Node JS for backend and created a schema for SQL database. Used REST API that uses camera to scan barcodes and returns UPC code.
- Used Mocha, Supertest for testing HTTP requests as well as Chai assertion library for continues testing. Created test cases and used Husky and lint-staged with git version control to run tests each time a commit is made.

UNIVERSITY BAZAAR SYSTEM

*ANDROID STUDIO | MYSQL | AMAZON EC2 | PYTHON | BRAINTREE REST API*

- Developed an e-commerce android app hosted on AWS server for university students.
- Created SQL schema and setup MySQL server on AWS and wrote queries to perform various actions.
- Developed a payment gateway using BrainTree REST API and integrated Google AdSense to the application.

T-MOBILE RESCUE

*ANDROID STUDIO | GCS | PYTHON | NLTK | SCIKIT-LEARN*

- Developed a Full-Stack application with two interfaces (Consumer side and Provider side) to enhance customer service.
  - The consumer side application is an Android application in which customer can speak the issue they are facing. Used NLTK library to extract feature vectors. Collected data samples and trained ML model to classify into four different categories.
  - Used JavaScript to populate a dynamic dashboard with customer data arranged according to the classification.
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