

# Sai Chethan Reddy

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## EDUCATION

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### The University of Texas at Dallas

Master of Science in Computer Science.

The Erik Jonsson Graduate Scholarship Recipient.

Richardson, TX

December 2022

## SKILLS

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**Technical Skills:** Python, C++, Java, SQL, Object-Oriented Design.

**Frameworks:** Tensorflow, React, Flask, Git, Linux.

## WORK EXPERIENCE

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### Asha Tek

Full Stack Developer

Dallas, TX

February 2023 – Present

- Explored different existing HR tools and performed a pain point analysis.
- Developed a prototype application in flask for deeper understanding for problems and possible improvements.

### Amazon

Software Developer Intern

Seattle, WA

May 2022 – August 2022

- Created an SFTP server using an EC2 instance to facilitate a gateway for partners to share accounting reports.
- Developed resources for the accounting team to retrieve reports from S3 buckets & perform analysis using Athena.
- Reduced latency from 3 days to 1 day, by streamlining unit and integration testing in CI/CD pipeline.
- Configured DJS jobs to render information about pending tickets and action items at frequent intervals.
- Led the oncall drive by integrating SmartTTBots, which led to 10-20% improvement in effort reduction.

### Vague Reality

Software Development Engineer

Delhi, India

July 2020 – July 2021

- Designed web pages using HTML, CSS, Bootstrap, JavaScript and single page views using AngularJS.
- Built a React application, which renders data from different formats like JSON, XML onto the web page.
- Introduced AJAX to update the agile content of the webpage, thereby reducing around 5ms of response time.
- Connected the application to MongoDB, S3 Bucket, NoSQL database backend.
- Created RESTful APIs using NodeJS and Express for performing CRUD based operations on the data.

### IIT Patna

Summer Student Developer

Patna, India

May 2019 – December 2019

- Implemented a multimodal NER system that utilized 3 distinct modalities: tweets, hypertext, and images.
- Achieved 12% improvement in F1 score using character level hand-crafted features.
- Performed a detailed ablation study with combinations of text and image-based modalities with attention.
- The Expert Systems with Applications journal, one of the top 10 journals in AI, published the study's findings.

## UNIVERSITY PROJECTS

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### Soccer Search Engine

February 2022

- Devised a full scale search engine for soccer, using 100k web pages to rank and retrieve.
- Realized significant overlap(50-60%) of web page rankings with existing search engines like Google and Bing.

### Bitcoin Trading System

September 2021

- Teamed with 3 people to deliver a real time bitcoin trading application with client, trader and admin views
- Enabled admin interface for viewing transaction reports and insights during custom date ranges.

### Identifying Mental Health Disorders

January 2021

- Curated a large dataset consisting of 7000 dyadic conversations for major mental illnesses among the users.
- Constructed a dual attention network for modeling the conversations and identifying between 5 disorders.