

# RANJITH REDDY GADDAM

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## EDUCATION

### Master of Science, Computer Science

May 2023

California State University, Long Beach, CA

4.0 GPA

Relevant coursework: Advanced Analysis of Algorithms, Advanced Topics in Programming Languages, Advanced Software Engineering

## TECHNICAL SKILLS

**Programming:** Python, Java, C++, C, R, JavaScript, Scala

**Cloud Technologies:** AWS, Azure

**Web Technologies:** Django, Flask, HTML, CSS

**Database:** SQL, MySQL, PostgreSQL, MongoDB, Snowflake, InfluxDB, Cassandra

**Tools:** Docker, Terraform, Kubernetes, Git, Jenkins, SSMS, Visual Studio, Jira

**Libraries:** NumPy, Pandas, Keras, TensorFlow, scikit-learn

## EXPERIENCE

### FactSet Research Systems Inc, India

Aug 2020 – Dec 2021

Software Engineer (Python, Pandas, NumPy, C++, AWS, SQL, CI/CD)

- Developed and maintained a financial data and analytics integration software system in Python.
- Collaborated with a team of four to create a Python API called "Holiday Management" that fetches both future and past stock market index holidays for a given date range.
- Established AWS infrastructure, implemented Python-based automated jobs for data collection and storage, and auto scaled the cloud infrastructure using Terraform.
- Enhanced backend automation through AWS Data Migration Service, optimizing real-time database operations.

### FactSet Research Systems Inc, India

May 2020 – Aug 2020

Software Engineer Intern (Python, Pandas, NumPy, AWS, SQL)

- Developed and maintained 'Benchmark Editor', a Python-based internal tool for manipulating vendor data before storing it in a client database.
- Automated data integration with Python scripts, reducing engineering workload and increasing productivity.
- Designed and implemented a job-queuing service, to run on AWS EC2, for efficient management of multiple processes with limited resources.

### Talent Excel, India

Apr 2019 – Aug 2019

Software Developer Intern (Python, Django, MySQL, HTML, CSS, Flutter, Firebase)

- Worked on developing a navigation app using Django framework for optimal routing and notification delivery.
- Designed and implemented a fault-tolerant mobile application with MySQL integration via a REST API.
- Utilized Flutter and Firebase to create intuitive interfaces and deliver robust solutions.

## ACADEMIC PROJECTS

### Bug Hound ([Github](#))

Feb 2023 – May 2023

Collaborated in a team of three to design a python flask-based web application.

- Developed a bug tracking system enabling employees to report, assign, fix, and test project bugs.
- Led backend development and testing responsibilities for the bug tracking application.

### Malicious URL Detection using Machine Learning ([Github](#))

Dec 2020 – Apr 2021

Led a team of two to design and develop a Machine Learning model in python to detect unsafe URLs.

- Extracted URL attributes such as length and domain for Naive Bayes model input.
- Achieved 92% accuracy with the model and developed a user-friendly Chrome extension on top of it.

## OTHER WORK EXPERIENCE

### California State University, Long Beach, CA

Jan 2023 – May 2023

Teaching Associate - Data Structures (20 hours/week)

- Tutored 30 undergraduate engineering students per week in Data Structures coursework.
- Created & graded lab assignments and hosted office hours for students.