

SAIRAJA KURELLI

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EDUCATION

University of Texas at Austin

Austin, TX

Bachelor of Science in **Computer Science** - 3.9 GPA, Master of Science in **Computer Science**

Graduating May 2025

- **Relevant Coursework:** Data Structures, Algorithms, Machine Learning, Computer Architecture, Operating Systems, Graphics, Symbolic Programming, Programming for Correctness & Performance, iOS Development, Ethical Hacking
- **Graduate Courses:** Securing Real World Systems, Communication Complexity

EXPERIENCE

Software Engineer Intern

May. 2022 – Aug. 2022, May. 2023 – Aug. 2023

Visa

- Built a File Management System for **HDFS** to extract and compress crucial **YARN** data for **Spark** Jobs
- Configured direct **JDBC** connections to **Spark-Thrift** data servers in **Scala** to develop in-house data processing
- Optimized **SQL** scripts that aggregated Visa's distributed datalake to reporting tools like Tableau

Software Engineer Intern

Jun. 2021 – Aug. 2021

Tata Consultancy Services

- Executed data conversion for customers' AP, AR, and GL Transactions using FBDI CSV files
- Role provisioned for on-boarding users and Inactivated Oracle User Accounts for off-boarding.
- Used Oracle **REST APIs** to update AP and AR invoices and Developed OTBI and BIP Reports using **SQL** queries.

Student Researcher

Jun. 2019 – Aug. 2019

Rice University

- Researched Efficient Bucket and Permutation Sizes for Minhashing with Professor Anshumali Shrivastava
- Optimized implementation of Murmurhash in **Python** for Minhashing Algorithm for a 3-4% improvement

Software Engineer Intern

May. 2019 – Jul. 2019

PetroEd

- Implemented Naive-Bayes Classifier in **Java** as Similarity Checker between Lesson Objectives and Modules
- Developed e-learning software based on **SkillGRID LMS** and **SkillGRID CMS** format to license to oil/gas companies

TECHNICAL SKILLS

Languages: Proficient in Java, SQL, Python, Scala, C/C++ , and React-Native with TypeScript

Developer Tools: Git, UNIX, VS Code, IntelliJ, Octave, LaTeX

PROJECTS

First Place Team at HackMerced-VII with project **Lablr** for Instagram

- Developed Extension to monitor Image Distortions and assign tags to help young users develop a healthier body mindset

Software Lead for team **RegoSafe** at TSGC's Design Challenge

- Detected the state of lunar machinery using **PyTorch** with a 72 AP Score on test set

Backend Lead for project **Farm Fresh News** at HackTX

- Developed application aggregating farming news sources with **Google Natural Language API** sentiment analysis

LEADERSHIP

President, Finance Vice President

Aug. 2020 – present

Association for Computing Machinery

University of Texas

- Discussed and hosted community events to build an ACM community of more than 300 UT Students
- Coordinated and Directed budget resources over \$19,000 annually from 2020-2023

Teaching Assistant

Jan. 2022 – present

CS303E - Elements of Computers and Programming

University of Texas

- Designed quizzes for over 600 students and Graded Python assignments for a 60 student cohort
- Conducted office hours to help students work through questions over Data Structures and OOP concepts