SAIRAJA KURELLI

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EDUCATION

University of Texas at Austin   Austin, TX
Master of Science in Computer Science   *Graduating May 2025*
Bachelor of Science in Computer Science, Minor in Business - 3.9 GPA
- **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

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

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

PROJECTS

First Place Team at HackMerced-VII with project *Lablr* for Instagram
- Developed Google Chrome Extension with **Vue.JS** 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
- Analyzed lunar machinery state using **Detectron2** with **PyTorch** with a 72 AP Score on test set

Backend Lead for project *Farm Fresh News* at HackTX
- Developed application that aggregates farming news with **Google Natural Language API** sentiment analysis

LEADERSHIP

President (2023-Present), Vice President of Finances (2020-2023)   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
Elements of Computers and Programming   *University of Texas*
- Designed quizzes for over 600 students and graded **Python** assignments for 60 student cohorts
- Conducted office hours to help students work through questions over Data Structures and OOP concepts