SAIRAJA KURELLI

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EDUCATION

University of Texas at Austin — Austin, TX
Bachelor of Science in Computer Science - 3.9 GPA — *Graduating May 2024*
- **Relevant Coursework:** Data Structures, Computer Architecture, Statistics, Discrete Mathematics, Calculus

Dulles High School — Sugar Land, TX
Math and Science Academy — *Aug. 2017 – May 2021*

EXPERIENCE

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
- Develop e-learning software based on **SkillGRID LMS** and **SkillGRID CMS** format to license to oil/gas companies

Curriculum Developer & Lead Tutor — Jun. 2018 – present
Sigma Learning Center
- Taught high school math & science courses including AP Physics C, AP Chemistry, AP Statistics
- Designed and led summer Java Course over basics of **Java**, simple data structures, and **OOP concepts**

LEADERSHIP

Vice President of Finances — Aug. 2020 – present
Association for Computing Machinery — *University of Texas*
- Managing budget resources for the 2020-2021 and 2021-2022 year
- Discussed and hosted community meetings to improve stereotypes regarding Artificial Intelligence

President — Sep. 2016 – 2020
Computer Science Club — *Dulles High School*
- Developed Point System and Barcode Logins which increased membership by four times
- Organized Dulles CS contest including problem writing, managing finances, and hardware setup
- Published videos, quizzes, and exercises in preparation for UIL contests on courseful.thinkific.com/courses/java

Competition Manager and Co-Founder — Sep. 2018 – 2020
Economics Club — *Dulles High School*
- Organized 3-4 National Economic Challenge, Knowledge@Wharton, and Personal Finance Challenge groups
- Taught important Macroeconomics concepts such as Inflation and GDP

AWARDS AND HONORS

National AP Scholar and National Merit Commended Scholar

USA Computing Olympiad Silver Division

Top Economics Score in Texas for Academic Decathlon at Districts

3rd in State for National Economics Challenge in David Ricardo Division

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, and HTML/CSS
Developer Tools: Git, UNIX, VS Code, IntelliJ, Octave