JERRY LI

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Portfolio: github/jerryli65

EDUCATION

Texas A&M University, College Station, Texas   May 2024
Bachelor of Science in Computer Science (Honors)
GPA: 3.8

TECHNICAL SKILLS

Languages: C++, Python, Java, R, Haskell, JavaScript, React.js, SQL
Developer Tools: Git, Object Oriented Programming, Documentation, Debugging, LaTeX
Software: GitHub, Windows Subsystem for Linux, NetLogo, Notion

WORK EXPERIENCE

Computer Science Instructor — *Lavner Education*   May 2022 - August 2022
- Engaged elementary and middle schoolers in intensive weekly courses centered around computer science and technology
- Instructed curricula in the subjects of Python, C++, robotics, basic cryptography, and digital ethics
- Enhanced and encouraged student understanding by troubleshooting a wide range of beginner technical errors in real time
- Maintained functionality, utility, and organization of dozens of laptops, USB drives, and email addresses for student needs
- Received the Outstanding Student Engagement Award, presented to only 72 instructors nationwide

Data Science Research Intern — *Conte Research Lab*   January 2022 - June 2022
- Computed statistical analysis on thousands of simulations regarding trends in correctness of beliefs in individuals and their networks over time in the presence of tampered facts and dynamic sharing habits
- Boosted data collection speeds by automating the process of creating and analyzing interactive multivariable figures
- Ensured accurate file management and compatibility with 4 teams by presiding over the project's version control
- Established a futureproof structure through drafting documentation for code files and generated figures
- Prepared a presentation for a mathematical conference detailing substantial and nontrivial results

Teaching Assistant — *Texas A&M College of Engineering*   August 2021 – December 2021
- Encouraged student success in Engineering Success Seminar via office hours, grading assignments, and proctoring quizzes
- Managed records for each student and processed numbers and data with speed and accuracy
- Reinforced student confidence through individual meetings with 19 students regarding their apprehensions and goals

Software Documentation Captain — *Texas A&M Robotics*   July 2020 - June 2021
- Oversaw construction of a State Finalist engineering notebook for the VEX Robotics 2021 National Competition
- Directed formal documentation of hundreds of meeting logs, design processes, calculations, computer models, and game strategy
- Facilitated technical communication between team members working on serial transmissions, vision, odometry, and path planning

PROJECTS

GrocerEZ Grocery Planning Application | Python, Java, Selenium, TypeScript
- Contributed to a full-stack application for determining the cheapest grocery store given a user's grocery list and location
- Used Selenium and BeautifulSoup for the backend to source two major grocery stores

SETitaire GUI Card Game | Java, JavaFX, SceneBuilder
- Developed a GUI of an original card game for members of the board games club at college
- Designed a heuristic hashing algorithm to identify specific combinations within properties of a deck of cards

Discord Robot | JavaScript, discord.js
- Created a robot that relays statistics and trivia of different drum corps groups and events
- Utilized the Discord API to respond to user commands in milliseconds with live hosting

Anarchists' Chess | Python, Tkinter
- A chess variant with specific gameplay quirks designed for an online community of 298,000 users

LEADERSHIP EXPERIENCE

Engineering Honors Student Committee, Events Coordinator — *Texas A&M Engineering Honors Program*   July 2021 - Present
- Increase student engagement with Engineering Honors by 400% via career fairs and weekly events
- Improve program opportunities and communication by meeting with department advisors and university associates
- Promote undergraduate research and computer science by speaking at several seminars of 150 underclassmen
- Organized a course scheduling social for the college with over 700 students in attendance
- Advocate for thousands of honors students by presenting biannual report to the program's Steering Council