

JERRY LI

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EDUCATION

Texas A&M University

Bachelor of Science in Computer Science, Honors
GPA: 3.6

December 2024

College Station, TX

Relevant Coursework: Artificial Intelligence, Foundations of Software Engineering, Design and Analysis of Algorithms, Network Security, Parallel Computing, Cryptography, Computer Architecture, Operating Systems, Engineering Project Management

TECHNICAL SKILLS

Languages: C++, C, Python, Java, Ada, R, PostgreSQL, JavaScript, CSS, HTML, Haskell, MATLAB, ROS

Frameworks/Libraries: React.js, ggplot2, matplotlib, numpy, Express, Bootstrap

Developer Tools: Git, TortoiseSVN, Linux, Agile, Jira, Visual Studio, VirtualBox, GCC, GNAT Studio (GPS), VectorCAST

RELEVANT EXPERIENCE

Collins Aerospace

May 2024 – Present

Software Engineer Intern

Cedar Rapids, IA

- Aligned system behavior with customer expectations by updating dozens of textual and model-based software requirements
- Verified source code for correctness and robustness by executing thousands of Python test scripts and generating regression logs
- Proved completeness of several suites of test cases per DO-178B guidelines, updating and executing procedures where necessary

Collins Aerospace

June 2023 – December 2023

Software Engineer Co-op

Cedar Rapids, IA

- Resolved algorithmic and interface issues in the flight management system by developing C and Ada software prototypes
- Meticulously moderated change reviews to the codebase and requirements using Eclipse and Jama, ensuring a quality product
- Enhanced technical comprehension and accessibility of flight function software by revamping 50 pages of design documentation

Lavner Education

May 2022 – August 2022

Information Technology Intern

Austin, TX

- Provided technical support and maintenance of live servers and administrative permissions across 4 locations
- Monitored and optimized performance, hardware, and software of 200 laptops and 8 3D printers
- Achieved 100% response rate to tickets within 30 minutes, escalating issues to higher support when needed
- Mentored and trained 50+ students in programming and cybersecurity through weekly interactive classes and projects

The Conte Lab

January 2022 – June 2022

Data Science Undergraduate Researcher

College Station, TX

- Computed and analyzed thousands of MATLAB simulations using Python to provide insightful statistical analysis
- Automated the process of generating multi-variable figures using R and ggplot2, more than doubling data collection speeds
- Presided over the project's version control, ensuring accurate file management and documentation for a team of 4 members
- Presented breakthrough results at a mathematical conference, leading to recognition and accolades from distinguished professors

PROJECTS

Household Management Optimization Application | Flutter, Dart, Firebase, Python

- Developed a mobile application that reduces conflict between roommates through shared responsibility of household maintenance
- Applied the adjusted winner procedure to assign tasks to roommates, emphasizing justice and efficiency
- Implemented an information retrieval system to optimize the scheduling of user-created events on a shared calendar

Restaurant Point-of-Sales System | AWS, PostgreSQL, Java, JavaScript, Express, HTML, CSS

- Created a virtual interface that allows customers and servers to place orders at a local pizza restaurant
- Connected a PostgreSQL database with inventory and pricing to provide access to ordering trends and sales reports
- Implemented APIs for Google Translate, Google Maps, and OAuth 2.0 to increase user accessibility

LEADERSHIP AND ACTIVITIES

Campus Programs, Collins Aerospace | *Student Ambassador Lead*

Aggie Coding Club, Texas A&M University | *Project Contributor, General Member*

Student Government Association, Texas A&M University | *Service Committee*