

Zihao Zheng

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SKILLS

Programming	Java • JavaScript • C++ • C • Python
Web & Database	HTML • CSS • MySQL • MongoDB • DOM • BOM • Ajax
Frameworks	Bootstrap • Vue • ReactJS • Spring Boot
Tech	Git • LaTeX • Visual Studio • Android Studio • IntelliJ IDEA • Eclipse • PyCharm • Maven
Language	English • Mandarin Chinese

EDUCATION

Bachelor of Computer Science (B.S.), Rutgers University, **CGPA: 3.6/4.0**

Relevant Coursework: Data Structures, Prin Info & Data Mgt, Software Methodology, Machine Learning Principles, etc.

Awards/Honors: On Deans list for more than 4 semesters consecutively

EXPERIENCES/PROJECTS

Spacecraft Leak Detection Simulation in Python

Oct 2023

- Led a group of 3: Assign as the project lead, organized the project layout, helped teammates debug.
- Implemented algorithms such as A* and BFS for efficient leak detection in a simulated ship environment.
- Utilized Bayesian interference to enhance bots' decision making in dynamic scenarios.
- Improved efficiency by decreasing bots' search time through algorithmic interference and performance analysis.

Chess Game

Mar 2023

- Built a Chess Game application that allows two players to play against each other.
- Debugged and resolved complex issues related to game rules and user input.
- Used the Model-View-Controller (MVC) design pattern to separate game logic and data.

Android Photos

May 2023

- Designed and developed a photo management app for Android devices using Java.
- Divided the project into clear modules and utilized Agile methodologies for project management.
- Conducted code reviews and provided feedback to improve overall code quality and maintainability.

Photos

Apr 2023

- Created a JavaFX program for photo management and storage.
- Led a group of 2: organized meetings, delegated tasks, helped teammates debug, etc.
- Conducted thorough testing and validation to ensure proper functionality and user experience.

Task Agenda (Front-End)

Aug 2022

- Developed a responsive agenda website that implemented CRUD operations.
- Used: HTML, CSS, JavaScript, jQuery, JSON, etc.

Songlib

Feb 2023

- Developed a JavaFX application that mimics a song library.
- Debugged and resolved complex issues related to game rules and user input.
- Employed version control with Git for collaborative development and code management.