Zihao Zheng

Portfolio: https://zhengzihao2002.github.io • LinkedIn: https://www.linkedin.com/in/zhengzihao2002
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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 • Nginx • Tomcat •IntelliJ IDEA • Eclipse • PyCharm • Maven • Postman
Language	English • Mandarin Chinese • Korean (Basic)

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 and improved efficiency.
- Used Pygame to develop an GUI showcasing simulations with interactive visuals and background music.

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*

- Developed an Android photo management app, focusing on a user-friendly UI/UX, using Java and XML.
- Implemented a comprehensive CRUD framework for image and album handling with tag-based searching.
- Championed code quality with meticulous reviews, leveraging Gradle and MVC architecture for optimal app performance on Nexus 4 (API 29).

Photos   *Apr 2023*

- Developed a JavaFX photo management program with a user-friendly GUI for image organization and storage.
- Directed a team of 2: organizing meetings, assigning tasks, and assisting with code debugging and problem-solving.
- Applied Java and JavaFX to build a secure login and CRUD operations for user accounts, albums, and photos.

Task Agenda (Front-end)   *Aug 2022*

- Developed a responsive agenda website that implemented CRUD operations.
- Used: HTML, CSS, JavaScript, jQuery, JSON. Live Demo: https://zhengzihao2002.github.io/ToDoList

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.