MINGJIE ZHANG

APPRENTICE COMPUTER ENGINEER

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1 jan 2002
Mingjie Zhang | LinkedIn
Rimyo (github.com)

ABOUT ME

I am a computer engineering apprentice that have acquired skills in programming and software design through my studies and personal projects.

EXPERIENCE

Sep 2023 - Aug 2025

Python, Full-stack developer
BNP Paribas Arbitrage, Paris

- Design pattern implementation
- Tests (BDD, unit, mock) implementation
- Django web application rework

FORMATION

Computer Engineering Curriculum
Sup Galilée, Villetaneuse
2022 - 2025

Integrated Engineering Preparatory Course
Sup Galilée, Villetaneuse
2020 - 2022

Scientific Baccalaureate
Lycée Hélène Boucher, Paris
2017 - 2020

SKILLS

Languages : C, C++, R, C#, Java, Python, PHP, MIPS, Ocaml, Julia
Softwares : RStudio, WireShark, Matlab
Web : HTML, CSS, JavaScript, TypeScript, Django, XML, React, Node.js, REST Apis
Conception : UML, Design Pattern, Linear and combinatory optimisation
Data : SQL (Oracle)
Else : Git, Excel, Linux, LDAP, Cplex, Unity , CI/CD, Jira, Agile, Scrum

INTERESTS

- Coding Personal Projects
- Cooking
- DIY Projects

LANGUAGES

- Chinese - fluent
- English - fluent
- French - Bilingual
- Spanish - Basic

PROJECTS

- **RPG Game in C:** Developed a fully functional RPG game with game mechanics, character interactions, and UI elements using a graphics library in C.
- **Mastermind Game in C**: Implemented Mastermind using GTK3 and MVC architecture in C.
- **Data Analysis in R:** Analyzed correlations between music habits and COVID-19 lockdowns using statistical methods and data visualization in R.
- **Paris Metro Route Calculator in C:** Designed a route calculator for the Paris metro system, implementing shortest path algorithms in C.
- **Epidemic Tracking Mobile App:** Modeled and designed a mobile app to track epidemic progression with real-time updates and notifications.
- **Ecosystem Simulation in Java:** Created an ecosystem simulation with species interactions and environmental factors in Java.
- **Movie Web App in Node.js:** Developed a Node.js web application for searching and showing movies in theaters, integrating movie database APIs.
- **Optimal Antenna Placement:** Solved optimal placement of antennas for city coverage, ensuring maximum coverage with minimal resources.