

# Randy Ren

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## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL, JavaScript, HTML/CSS, TypeScript, Latex

**Frameworks:** React.js, Node.js, Next.js, Tailwind CSS, FastAPI, JUnit, Mockito

**Developer Tools:** Git, Github, Fusion360, Google Cloud Platform, AWS, MongoDB, Figma, Blender, Web3

## EXPERIENCE

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### Software Engineering Intern

Visa

May 2024 – August 2024

San Francisco, CA (Remote)

- Involved in the full software development life cycle from analysis, quality assurance, security, and deployment, contributing to a **30%** reduction in deployment time
- Utilized object-oriented languages such as **Java**, **Python**, and **C++** to develop an API for payment processing and microservices
- Developed and implemented financial analysis methods to enhance transaction accuracy and efficiency, integrating these solutions into the payment processing algorithms
- Participated in agile development methods, with a strong emphasis on continuous integration and deployment through automated frameworks such as **JUnit** and **Mockito** for **Java** applications

## PROJECTS

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### Weather-App | GitHub |

- \* Developed a full-stack web application using **Next.js** and **JavaScript** to provide real-time weather updates, 5-day forecasts, and much more
- \* Integrated **OpenWeatherMap API** and **Meteo Index API** to fetch detailed weather data, resulting in a **25%** improvement in data accuracy
- \* Designed a modern, responsive UI using **Tailwind CSS**, boosting user interaction time by **30%**

### Personal Portfolio | GitHub |

- \* Developed a personal portfolio website using **Next.js** and **Tailwind CSS** to showcase skills, projects, and contact information
- \* Implemented responsive design and dynamic theming to enhance user experience across devices
- \* Integrated **Resend API** for efficient email forwarding, streamlining contact management
- \* Optimized site performance using more efficient algorithms, achieving a **35%** improvement in load times and user interactions

### Facial Recognition System | GitHub

- \* Developed a facial recognition system using **Python** and **OpenCV** for real-time image and video processing
- \* Implemented a facial recognition library for robust face detection and recognition, achieving **95%** accuracy in facial identification
- \* Created a user-friendly interface with **Tkinter**, integrating **PIL** for image handling and **NumPy** for efficient numerical operations
- \* Utilized **dlib** for facial landmark detection and deep learning-based facial encodings, enhancing recognition accuracy and speed

### Wordle Solver | GitHub |

- \* Developed an interactive Wordle guessing game using **JavaScript** and **HTML**, featuring a built-in solving algorithm for enhanced gameplay
- \* Designed an efficient solver algorithm that uses initial strategic guesses, feedback filtering, and backtracking, solving words with a **98%** success rate

## EDUCATION

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University of British Columbia

Bachelor of Applied Science in Electrical Engineering

Vancouver, BC

Sep. 2023 – Apr. 2027