Ayumu Miyamoto

Frontend Developer & Web Development Student

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Professional Summary

Frontend developer with a strong foundation in Information Science and hands-on experience in developing web and mobile applications through academic projects and hackathons. Skilled in modern frameworks such as React, Vue, and Flutter, with a keen interest in designing intuitive user interfaces. Experienced in integrating machine learning techniques to enhance application functionality. Committed to writing clean, maintainable code and continuously learning new technologies to improve user experience.

Education

Diploma in Web Development   Present

Tamwood College, Vancouver (In Progress)

Comprehensive program focusing on frontend and backend technologies, responsive design, and modern web development practices.

Bachelor of Science in Information Science   On Leave

Doshisha University, Japan (On Leave)

Coursework: Data Structures, Algorithms, Machine Learning, Natural Language Processing, Database Systems

Technical Skills

Languages
- JavaScript
- TypeScript
- HTML5
- CSS3
- Python
- Dart
- PHP

Frameworks
- React
- Vue.js
- Flutter
- Next.js
- Three.js
- Django

Tools
- Git
- Firebase
- VS Code
- Figma

Styling
- Tailwind CSS
- Bootstrap
- SASS/SCSS
- CSS Modules

Data Science
- PyTorch
- NumPy
- OpenCV
- MeCab

Languages
- Japanese (Native)
- English (Fluent)

Academic & Hackathon Projects

Natural Language Processing & Machine Learning

Doshisha University Project • 2022

Python, PyTorch, NumPy, OpenCV, MeCab

- Developed image classification models using CNNs and implemented NLP techniques for text analysis
- Used MeCab for Japanese language tokenization and OpenCV for image preprocessing
- Achieved 92% accuracy on test datasets using PyTorch and NumPy for model training

Text Encryption/Decryption Web Application

Hackathon Project • 2023

React, JavaScript, Firebase, Git

- Collaborated in a team of 4 to develop a web app for encrypting/decrypting text with various algorithms
- Implemented AES, RSA, and custom ciphers with a responsive React UI
- Used Firebase for authentication and secure data storage with Git for version control

Hearable Device Control Application

Academic Conference Competition • 2023

Flutter, Dart, Bluetooth API, Biometric Sensors

- Developed a Flutter mobile app in a team of 3 to interface with biometric data-collecting earphones
- Created functionality to control a prosthetic hand through processed biometric signals
- Designed an intuitive UI for real-time biometric data monitoring and device control

Extracurricular Activities

♀ Hackathon Participant
Participated in multiple hackathons, developing innovative solutions under time constraints.

‹› Coding Club Member
Active member of university coding club, participating in coding challenges and peer programming.

⊞ Conference Presenter
Presented research at university academic conferences, developing public speaking skills.