



# Xiaohang Ji

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 Open Personal portfolio  
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## Education

Computer Engineering Technology-ComputingScience 2021.09 - 2024.09  
Algonquin College  
GPA 3.8/4.0.

## Project

### API Interface Open Platform

Spring Boot Spring Cloud Gateway Docker Swagger + Knife4j Dubbo MyBatis-Plus

[Github](#) [LiveDemo](#)

- Overview :  
Developed a secure API platform with user registration, login, call permission management, and usage tracking. Administrators can manage and debug APIs. The project uses a **modular architecture** to ensure scalability and maintainability.
- Responsibilities :
  - Designed and implemented core functionalities, including API management, usage statistics, and access control.
  - Developed a lightweight **client SDK** to simplify API calls for developers.
  - Implemented **API signature** authentication and rate limiting to ensure security.
  - Integrated **Swagger** and **Knife4j** to auto-generate API documentation, enhancing front-end and back-end collaboration.
  - Integrated **Redis** and Elasticsearch for caching and analyzing call data, boosting system performance.

### Full Stack Web Application with React and Spring Boot

React Node.js Spring Boot Spring Security Mysql Spring Data JPA REST API

[Github](#) [LiveDemo](#)

- Overview :  
Developed a Full Stack web application integrating **React** and Java Spring Boot, incorporating features like **Stripe** credit card payments, JWT-based authentication, and user role management.
- Responsibilities :
  - Built the front-end using React, focusing on dynamic UI/UX and seamless user interactions.
  - Developed back-end RESTful APIs with Spring Boot, incorporating Stripe for payment processing.
  - Implemented **API signature** authentication and rate limiting to ensure security.
  - Implemented **JWT authentication** and Spring Security for secure user login and access control.
  - Designed and integrated a **role-based** access system to manage different user permissions.

## Internship Experience

Agriculture and Agri-Food Canada - IT Student 2022.09 - 2022.12/2023.09 - 2024.09

- Conducted software and hardware **testing**, optimizing system performance with **agile teamwork**.
- Maintained and updated inventory **management systems**, ensuring data integrity.
- Contributed to system optimization by **analyzing** and troubleshooting backend processes