

# YIYANG WANG

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## EDUCATION

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**Master of Engineering, Computer Engineering**, University of Toronto, 4.0/4.0 Sep 2024 - June 2026  
**Bachelor of Science with Honors, Computer Science**, University of Alberta, 3.6/4.0 Sep 2016 - June 2020

## EXPERIENCE

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**University of Toronto** Toronto, Canada  
*Teaching Assistant* Sep 2024 - Dec 2025  
*CSC207 Software Design (Sep-Dec 2024), CSC148 Introduction to Computer Science, CSC301 Introduction to Software Engineering, CSC309 Programming on the Web (Jan-Apr 2025), CSC108 Introduction to Computer Programming, CSC207 Software Design (Sep-Dec 2025)*

- Taught software design, web development, and software engineering principles through tutorials and lectures.
- Guided students in applying Agile methodologies, SOLID principles, and version control workflows.
- Evaluated projects, ensuring code readability, maintainability, and adherence to best practices.

**ThirstyBrain Inc.** Remote, Canada  
*Software Development Engineer Intern* Oct 2024 - Jun 2025

- Designed and maintained backend services and **RESTful APIs** using **Java** and **Spring Boot**, powering a product-trading platform that processed over 30,000 weekly transactions.
- Boosted backend performance by 50%+ using **Redis** caching and **Kafka**-based microservices, improving system scalability and responsiveness.
- Deployed containerized applications to **AWS** with **Docker** and **Kubernetes**, ensuring seamless rolling updates and fast rollback capabilities with zero downtime.
- Developed thorough **JUnit** test suites covering backend services and database logic, reaching 88% test coverage, and contributed to Agile sprints to drive continuous improvements in code quality and team delivery speed.

**PhD League** Edmonton, Canada  
*Web Developer & Academic Program Assistant* Jul 2020 - Apr 2024

- Developed a student portal using **React.js** for intake forms, submissions, and internal task tracking, supporting hundreds of students and advisors.
- Migrated legacy content to **WordPress**, maintained plugins and security updates, and configured analytics modules to improve content tracking and usage insights.
- Implemented **Python scripts with PostgreSQL** to structure and archive application materials, automating document workflows and improving team efficiency.
- Built an automated template generation tool using **LaTeX**, enabling fast creation of timelines, statements of purpose, and resume templates, increasing student application success rates.

## PROJECTS

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### Rainfall Prediction with Feature Selection

- Implemented decision tree-based feature selection to optimize KNN and Random Forest models.
- Achieved a 2% improvement in prediction accuracy by reducing data redundancy and complexity.

### FlightGo – Full-Stack Flight Booking Platform

- Developed a **React/TypeScript + Tailwind CSS** frontend and **Express.js + PostgreSQL + Prisma** backend, implementing core features such as flight search, seat selection, booking, itinerary management, and user administration.
- Designed and implemented **RESTful APIs** with **Google OAuth 2.0** authentication and role-based access control; documented endpoints using **Swagger** for streamlined development and testing.
- Containerized frontend and backend services with **Docker & Docker Compose** and deployed to **DigitalOcean**, achieving scalable and highly available production deployment.

- Integrated **DigitalOcean Spaces** object storage with **PDFKit** to automatically generate and store invoice files, enhancing user experience and system reliability.

## SKILLS

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**Languages & Frameworks:** Python, Java, JavaScript/TypeScript, React, Next.js, Node.js, Express.js, Flask

**Web & Mobile:** Responsive Design, React Native, Tailwind CSS, Android Studio

**Database & Backend:** PostgreSQL, MySQL, SQLite, MongoDB, REST APIs

**Tools & DevOps:** Git, Docker, CI/CD, Azure, Postman, JUnit