Yidi Chen

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EDUCATION

University of Waterloo — Waterloo, ON
Bachelor in Honour Mathematics — *Sep. 2022 - Apr. 2027*
- Term Distinction (Dean's Honor Roll), **98%** major average (Math & CS)

PROJECTS

UWaterloo Bubble
Developer (Co-Developer) — *Oct. 2022 - Dec. 2022*
- An application targets to help UWaterloo Student social and communication.
- Implemented the frontend by **Vue.js** and **Element Plus**. Developed the login page and chatting page.
- Applied **Spring/Spring MVC/Spring Boot** in the backend to provide a **REST** API for the frontend.
- A user login system based on the **Spring Security**, providing an **RBAC** control in accessing the interface.
- Used **Hibernate** and **Spring JPA** to access the database (PostgreSQL) storing user profiles and data.
- A recommendation system based on AI is created by **Pytorch** and **Flask**, connecting backend by HTTP.

Email Manager
Developer — *Jun. 2022 - Jan. 2023*
- An email manager intended to make email management similar to accessing in a file explorer.
- Use **Spring** and **Springboot** for backend, providing the interface for frontend to operate the emails.
- Developed frontend by **React.js** in functional components. Used the **Ant Design** as the UI framework.
- Used the Jakarta email as the interface connecting the email server through **SMTP** and **IMAP** protocols.

Diffusion Anime Face Generators
Developer — *Oct. 2022 - Jan. 2023*
- Build an AI model **generating the anime faces** through training on the anime face dataset on Kaggle.
- Used **Pytorch** as AI framework. Generating the image by **Denoising Diffusion Probabilistic Models**.
- Implemented denoising model with a **UNet** having **convolutional residual blocks** and **multihead attention**.

EXPERIENCE

St. Augustine Catholic High School Computer Science Club — Markham, ON.
Club Leader — *Sep. 2021 - Jun. 2022*
- Taught topics about computer science and algorithms. (e.g. Graph Theory, Dynamic Programming)
- Had around 20 club members in the club. Helping the club members on Canadian Computing Competition.

Math & Computer Science Competitions — Canada
Participant — *Sep. 2021 - Present*
- Leetcode Global Contests: **Top 0.1%**, Ranked 359/370492 (Rate 2689).
- 2022 Canadian Computing Competition: **Top 1.7%**, Ranked 55/3262, National Honor Roll.
- 2021 Canadian Computing Competition: **Top 3.7%**, Ranked 107/2920, National Honor Roll.
- 2022 Euclid Competition: **Top 1.7%**, Ranked 374/22372, National Honor Roll.
- 2021 Euclid Competition: **Top 1.4%**, Ranked 296/20603, National Honor Roll.

TECH SKILLS

- **Languages**: Java, Python, C/C++, HTML, CSS, JavaScript & TypeScript, MySQL, Racket, Kotlin
- **Frameworks**: Spring & Spring Boot, Spring Security, Hibernate, Node.js, Vue.js (2 & 3), React.js, Pytorch, Flask
- **Tools**: Git, Maven, Gradle, Docker, Jenkins, Kubernetes
- **Project Manage**: Jira Software