

# Edison Wang

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## EDUCATION

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### University of Waterloo

*Bachelor of Computer Science*

Waterloo, ON

*Expected Graduation: 2030*

Relevant Coursework: Designing Functional Programs (Advanced Level), Tools and Techniques for Software Development, Elementary Algorithm Design and Data Abstraction, Critical Thinking

Term Average: 87%

## TECHNICAL SKILLS

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**Languages:** Python, SQL (PostgreSQL, MySQL, SQLite), C, JavaScript, HTML/CSS, LaTeX, Racket

**Frameworks/Libraries:** Django, Django REST Framework, FastAPI, Flask, Streamlit, OpenAI API, Gemini API

**Tools/Technologies:** Git, GitHub, Docker, Redis, MongoDB, Insomnia, VS Code, Cursor, Notion, MS Office

## WORK EXPERIENCE

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### Back-End Developer and Reviewer

*UW Orbital*

Sept 2025 - Present

*Waterloo, ON*

- Developed mission-critical Data Access Layer in FastAPI, reducing ORM code duplication by **50%**
- Implemented user authentication and authorization systems using **OAuth2** to manage permissions and access
- Created automated data migration pipeline consuming **90k+** rows of government data to validate credentials
- Documented ground station back-end architecture to reduce onboarding time of new members by **40%**
- Reviewed **10+ pull requests** from back-end contributors to ensure code quality and proper practices

### Lifeguard

*Canadian Forces Morale and Welfare Services*

Jan 2025 - June 2025

*Cold Lake, AB*

- Ensured safety of **150+ concurrent patrons** through vigilance and enforcing protocol over **300+ logged hours**
- Coordinated with aquatic team members using clear communication to resolve several high-stress situations
- Maintained detailed cleaning and maintenance logs during shifts to prevent patron illness and accidents

## PROJECTS

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### 🔗 Time Capsule Journal | *FastAPI, PostgreSQL, Redis, Celery, Docker*

- Built an asynchronous public-facing API leveraging FastAPI to enable users to message their future selves
- Implemented reliable email features using Redis and Celery to send user notifications when messages release
- Deployed the back-end application via Docker on Render, stress-tested to handle **3000+ requests per minute**

### 🔗 Polling Board | *Django, PostgreSQL, Redis, OpenAI API*

- Built a production-ready polling social network API, optimizing for scalable, low-latency user experience
- Developed back-end using Django to leverage robust admin features and popular authentication libraries
- Designed relational models in PostgreSQL to prioritize privacy and handle user analytics on poll interactions

### 🔗 Note-taking Version Control | *React, Django, PostgreSQL*

- Led a **4-person engineering team** to develop a collaborative note-taking platform within **36 hours** of coding
- Implemented cross-user version control system using PostgreSQL to enable historical diffs and file rollback
- Designed user management leveraging Django REST Framework libraries to add vote-based document editing

## PROFESSIONAL CERTIFICATES

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### Meta Back-End Developer Certificate

*Meta (Coursera)*

July 2025 - Aug 2025

- Completed an intensive back-end program by condensing an estimated **192 hours** of coursework into **six weeks**
- Built multiple business management applications with Django, applying REST principles and MVT architecture
- Applied skills learned from curriculum to implement back-end systems in later projects and work experience