Elrich Chen

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EDUCATION

University of Waterloo   Waterloo, ON
2A Bachelor of Computer Science Co-op   *Sept. 2025 – Ongoing*

Queen's University   Kingston, ON
Bachelor of Computer Science   *Sept. 2024 – May 2025*
GPA: 4.30/4.30 — Relevant coursework: Data Structures, Algorithms, Web Development

EXPERIENCE

Software Developer   Feb. 2025 – May 2025
Ontario Legal Tech | Personal Injury Law Startup   *Toronto/Remote*
- **Enabled laywers to process cases efficiently** using **TypeScript, Next.js** to engineer legal software tools.
- Improved team effectiveness by writing documentation for **2 tools** to **streamline developer handoffs**.
- Applied **UI/UX principles** to redesign homepage and improve adoption of tools among non-technical staff.

Frontend Developer   Sept. 2024 – Apr. 2025
Queen's COMPSA | Queen's Computing Student Association   *Kingston, ON*
- **Improved access to governance resources** for 2000+ members using **Figma** and **TailwindCSS**.
- Designed campus tools including a study room-booking system and ticketing platform to **enhance student life**.

HACKATHONS

[Landlord Negotiation Simulator](#) | *React, Next.js, Flask, TailwindCSS, Figma, Git*
- Enabled **first-time renters to safer leases** with full-stack application built using **Next.js** and **Flask**
- Orchestrated **real time landlord-tenant conversations** by **integrating backend to third-party api**.

Data modelling for NBA trading decisions | *Python, NumPy, Pandas*
- Provided key performance metrics with **Pandas/NumPy**, to **support strategic decision making for NBA teams**.
- Developed a business case study and secured **3rd** place **among 20+ teams.**

PROJECTS (100K+ IMPRESSIONS)

[Neural Network - BlackJack](#) | *Python, PyTorch, NumPy, OOP*
- Modelled a **Reinforcement Learning** Agent using Q-Learning across **2M+ simulated games**, achieving a **43%** win rate
- Implemented **Object-Oriented Programming** to increase **scale** of training in multiple scenarios.

[Jupyter Notebook Documentation Tool](#) | *TypeScript, JupyterLab, Jupyter AI, Ollama*
- Implemented in-place documentation generation using **Typescript** and Jupyter AI to **reduce context-switching for data scientists.**

LEADERSHIP & CAMPUS INVOLVEMENT

Logistics Organizer | *UW Tech+, student led, DEI focused tech org.*   Aug. 2025 – Ongoing
- Orchestrated smooth operations for **500+ students** across various events including Hubspot Employer Session.

Residence Counsellor | *Univeristy of Toronto Engineering Outreach*   Jun. 2025 – Aug. 2025
- Enhanced camp experience by mentoring **200+ students** through daily programming and on-call support.

Stanford Code in Place | *Python*   Apr. 2025
- **Mentored 10+ learners** globally in Python fundamentals.

SKILLS

Languages: Python (TensorFlow, PyTorch, Flask), Java, C, Racket, JavaScript (Next.JS, React), HTML/CSS
Developer Tools: Git, Docker, Bash Scripting, MongoDB, Figma, Acorn Task Management