

# Haozhe Wang

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## EDUCATION

### University of Toronto - St. George

Master of Engineering in Electrical and Computer Engineering | GPA: 3.82

Sep 2021 - Apr 2023

Toronto, Canada

### University of Wisconsin - Madison

Visiting Student in Electrical and Computer Engineering | GPA: 4.00

Jan 2019 - May 2019

Madison, United States

### Northeastern University

Bachelor of Engineering in Electrical Engineering | GPA: 3.42

Aug 2017 - Jun 2021

Shenyang, China

## EXPERIENCE

### LawyerDoneDeal Corp

Software Developer | TypeScript, Node.js, Express.js, React.js, SQL, Azure

May 2023 - Present

Toronto, Canada

- Modernized legal document intake with **RenAI**, an LLM-centric extractor, producing trustworthy key-value data from messy PDFs. Designed a dual-engine pipeline: **OCR** (Azure Form Recognizer) + **LLM** (ChatGPT API) that blends layout precision with semantic generalization, plus lender-specific extractors as fallbacks. Prompt-guided, JSON-schema-constrained outputs curb model drift and stabilize results. A config-driven, hot-swappable architecture enables prompt/rule updates without redeployments. Significantly reduces manual intake workload.
- Owned the end-to-end redesign of a flaky **Proxy API**. Introduced **single-flight** pool refresh mechanism (coalesces concurrent requests), context-aware routing, streaming pipelines (no buffering), session-level **cookie memory** (request/response sync), error-driven proxy eviction with on-demand refresh. Stabilized long-running uptime. Delivered **-67% avg** latency (1.84s→0.61s) and **-58% peak** (6.81s→2.84s) (5-day A/B).
- Engineered a **Trust Accounting** platform for real-estate closings, with file-level receipts/disbursements, batch check printing (drag-offset calibration), resumable reconciliation dashboard with PDF reports, and mass payables workflows. Adopted an append-only ledger and immutable audit history that mirror banking back-office controls.
- Designed a highly customizable **Document Management** system, enabling real estate lawyers to efficiently organize categories/packages, and search/filter/tag/create/edit/favorite templates. Integrated customized tags, page dirty warning, and live edit-conflict check features.
- Developed a **Document Generation** interface, with on-demand merge/preview/download legal documents for real estate cases. Integrated with file drive storage for document easy access and webhook notifications for real-time status updates. Replaced legacy backend APIs with Express.js.
- Established a secure **User Management** system, with role-based permissions and lawyer profiles. Enforced frontend and backend in-file permission checks to block unauthorized actions.
- Automated TD Bank subscription report ingestion with Google Apps Script → backend APIs → database update and reporting, streamlined the process, reducing manual effort and errors for the support team.

## PROJECTS

### Shopme E-Commerce App | Java, Spring, React, SQL, AWS

- Created a micro-commerce shopping application with login system, product management, order flows, customer reviews and checkout confirmation functionalities.

### Mini Pinterest Web | Python, Flask, SQL, AWS

- Built a full-stack image-sharing platform with **memory-caching** and **auto-scaler** feature, optimizing performance and reducing server resource usage.

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Java, Python, SQL, C#, C/C++

**Frameworks:** Node.js, Express.js, React.js, Spring, Flask, Bootstrap, Tensorflow, Hadoop, Spark

**Tools:** Git, Docker, Linux, AWS, Azure

**Certificates:** AWS Certified Cloud Practitioner, Canadian Securities Course (CSC), CFA Level I Candidate