

Haozhe Huo

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Education

University Of Toronto

BSc in Computer Science and Statistics (GPA: 3.98 / 4.00)

Expected Aug 2028

Toronto, ON

- **Relevant Coursework:** Intro to CS II (Python), Software Design (Java), Data Structures & Algorithms, Probability and Statistics, Statistics with Applied Probability

Experience

Beijing Century ChaoXing Information Technology Development Co., Ltd. •

Jul 2025 – Dec 2025

AI Agent Developer

Remote

- Scraped and aggregated **6 domain-specific datasets** for the knowledge base, then cleaned and transformed them using **Python (pandas, NumPy)**, improving data consistency and reducing manual preprocessing effort for downstream teams.
- Configured intelligent agent workflows through **cozeAI**, optimized prompts, and structured knowledge bases, which increased response relevance and reduced follow-up queries from end users.
- Designed **Lottie animations** and refined agent personas based on user scenarios, enhancing the agents' perceived professionalism and user engagement in conversational interfaces.
- Contributed to an AI-powered **consultation and evaluation system for medical students** by integrating curated Q&A content into workflows, enabling more accurate, scenario-based practice and feedback.

Shanghai Youth Science and Innovation WorkStation

Jun 2022 – Sep 2022

Student Research Assistant (Volunteer)

Shanghai, China

- Collaborated with a small peer team to design and implement a **Raspberry Pi-based Smart Security Guard** system featuring face and voice-controlled access.
- Learned and practiced key stages of the research process, including problem definition, prototyping, experimentation, and iterative refinement.
- Completed a supervisor-guided, systematic study of **Python, OpenCV, dlib, seaborn, and NumPy**, and successfully passed the project review and oral defense.

Projects

LexiGo | Java, Spring Boot, REST APIs, JUnit5, Mockito, Maven, Swing

- Independently designed a multilingual vocabulary app, clearly separating **service, mapper, controller** for scalability and maintainability.
- Implemented reusable modules for word practice, contributing **15,000+ lines** of production-quality Java code to the core features.
- Led project setup and ongoing maintenance, including build/CI configuration and **code reviews**, resulting in **372 unit tests and 82 merged pull requests** that ensured robust code quality.

UTMCSSA Academic Planning Analytics | Python, pandas, NumPy, Matplotlib, seaborn

- Processed **RateMyProfessors** data for UTM departments, performing data cleaning steps such as handling **missing values**, removing **duplicates**, standardizing text fields, and converting data types for reliable analysis.
- Engineered analysis-ready features by **binning** difficulty and quality scores, aggregating ratings at the **course** and **department** level, and extracting keyword-based “knowledge point” tags from review text.
- Created **visualizations** of course difficulty, major difficulty, and department characteristics to help **UTMCSSA** present data-driven guidance to first-year students.

Technical Skills

Languages: Python, Java, C, C++, R, HTML5, CSS3, Assembly

Other Tools: Jupyter Notebook, Anaconda, Lottie, LATEX, Markdown, Raspberry Pi, Ubuntu