

Eric Ni

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SUMMARY OF QUALIFICATIONS

- Strong foundation in computer science, including data structures, algorithms, and object-oriented programming
- 3+ years of experience with Java, Python, React, and other web frameworks/libraries
- 2+ years of experience using SQL, relational databases, and software development life cycle methodologies
- Great communication skills and excellent attention to detail in team environments

EDUCATION

University of Toronto

HBS in Computer Science, Mathematics, and Statistics + UTMCIP Co-op

Mississauga, ON

Expected Graduation, May 2027

- **Relevant Coursework:** Data Structures & Analysis, Algorithm Design & Analysis, Intro to AI, Software Tools & Systems Programming, Intro to Software Engineering, Intro to Databases, Probability & Statistics

SKILLS

Languages: JavaScript, TypeScript, Java, Python, HTML, CSS, SQL, C, C++, Bash, R, LaTeX

Tools/Frameworks: React, Node.js, Django, Express, Tailwind, MongoDB, MySQL, PostgreSQL, Git, Docker, Jest, PyTest

EXPERIENCE

African Geospace

Backend Software Engineer Intern | Python, Django, PostgreSQL, Google Cloud Platform (GCP)

Sept 2025 - Present

Toronto, ON

- Implemented a folder upload handler for map integration with shapefiles (.shp, .shx, .dbf, .prj, .cpg), which validates and stores 5+ geospatial files per request, using Django RESTful APIs
- Integrated Gemini 2.5 Pro LLM into backend to generate crop-type predictions for desired coordinates, with ranked candidates and confidence scores, reducing manual analysis time by 70%
- Engineered geospatial data models to store GeoJSON data in PostgreSQL on Google Cloud SQL and managed 300+ shapefile folders in Google Cloud Storage, ensuring scalable data management for spatial analytics
- Organized Scrum meetings and sprints for a 7-person team as Scrum Master in an Agile environment, leading sprint planning and coordinating feedback sessions with the company CEO

MarkiTech.AI

Backend Software Engineer Intern | JavaScript, Node.js, Express, MongoDB, Docker, Jest, Atlas

Aug 2025 - Present

Toronto, ON

- Streamlined frontend and backend communication, handling 500+ daily requests across designated websites and phone calls, using RESTful APIs built with Node.js and Express, and Socket.IO for real-time updates
- Engineered a CSV file upload system that validates, parses, and stores schedule data for 300+ users into a MongoDB/Mongoose schema for fast queries
- Created comprehensive tests for backend database validation, with 30+ test cases for 4+ databases, using Jest
- Deployed the backend using Docker, and leveraged MongoDB Atlas on AWS for scalable cloud database hosting

PROJECTS

CoverSume

- | JavaScript, React, HTML, Tailwind CSS, Node.js, Express, OpenAI API LLM, LaTeX
- Built a full-stack AI-powered resume and cover letter generator that reduces document creation time by up to 90%
 - Integrated RESTful APIs and GPT-4o LLM, where the LLM processes input to generate structured LaTeX code and the APIs manage the conversion to PDF, maintaining a 70% full conversion success rate, using Node.js and Express
 - Developed a dynamic website featuring multi-section forms, PDF preview/download, and clear feedback for errors, using React, HTML, and Tailwind CSS

Learnly | EmberHacks Hackathon Participant

- | Python, Django, Gemini API LLM
- Created a backend that supports creation of summaries and quizzes for uploaded notes, using Django
 - Integrated RESTful APIs and Gemini 2.5 Pro LLM image recognition with custom prompt engineering, which reads an uploaded PDF and generates JSON data to be sent to the frontend, with 90% valid data generation

Paint

- | Java, JavaFX
- Developed a paint application which supports 10+ drawing and coloring features, using Java and JavaFX
 - Led Scrum practices as Scrum Master for a 4-person Agile team, facilitating sprint planning, daily standups, and retrospectives to ensure alignment and continuous improvement