

INSOO SON

Software Developer | Backend & Web Development
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Education

Bachelor of Science, Computer Science <i>Western University</i>	May 2025 – Apr 2028 Ontario, Canada
Advanced Diploma, Computer Programming and Analysis <i>Fanshawe College</i>	Sep 2021 – Dec 2024 Ontario, Canada

Experience & Projects

Custom Language Model https://github.com/insooeric/LLM_Small	Aug 2025 – Sep 2025
<ul style="list-style-type: none">Built a custom text-generation language model from scratch in Python (PyTorch).Achieved 80.5% faster training steps and 45% higher throughput by tuning optimizers and compute settings, while reducing training perplexity.Applied parameter-efficient methods to reuse weights, cutting memory usage by ~40%.Designed a large-scale data loader enabling machines with limited memory to process billions of tokens across pretraining and fine-tuning.Built training infrastructure and evaluated faster attention mechanisms to improve training throughput and inference latency.	
Stemma https://stemma.vercel.app/	Jan 2025 – Apr 2025
<ul style="list-style-type: none">Built a web service that generates live badges showing GitHub project statistics for developers.Added secure login with session management to protect user accounts and data.Optimized API performance using parallelization, cutting latency by ~50% and allowing thousands of badge renders per day under load.Stored images on Google Cloud Platform for persistent hosting and automatic updates.Deployed a containerized system with logging and error handling to keep the service stable in production.	
Gomoku AI https://github.com/insooeric/Gomoku-AI	Jan 2025 – Jan 2025
<ul style="list-style-type: none">Built an AI opponent for the Gomoku (Connect 5) board game that players can challenge through a web client.Developed a backend service in C# and .NET Core that takes the current board state and returns the AI's next move via a REST API.Implemented full game rules, win detection, and move validation so the system handles different rule sets and invalid inputs reliably.Used advanced game-search techniques to let the AI plan several moves ahead and provide challenging gameplay for human users.	

Skills

Languages:	Python, TypeScript, JavaScript, C#, C++
Technologies/Frameworks:	React, Node.js (Express), ASP.NET Core, MongoDB, MySQL, Redis, PyTorch, NumPy, Transformers, LoRA, REST APIs
Developer Tools/Platforms:	AWS, Google Cloud Platform, Vercel, Docker, GitHub Actions, Git, Linux, VS Code

Extracurricular

Western AI – Misinformation Team <i>Developer</i>	Sep 2025 - Present Ontario, Canada
<ul style="list-style-type: none">Preprocess large-scale misinformation datasets for training (cleaning, labeling, splits).Build reproducible Python scripts to turn raw data into training-ready datasets.Help design training pipelines (data loaders, evaluation, experiment tracking) for misinformation-detection models.	