

# Skye Nam

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## EDUCATION

### University of Toronto

Bachelor of Engineering in Computer Engineering, Minor in AI and Business

Toronto, ON

Sep. 2022 – May 2026

### Lester B. Pearson Scholar

Full-ride Academic and Leadership Scholarship, \$400k

University of Toronto

## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++, CSS, SQL, JavaScript, HTML/CSS, TypeScript, MATLAB, Assembly

**Frameworks:** React, Node.js, Django, Flask, WordPress, Material-UI

**Tools:** Git/GitHub, Linux CLI, Docker, Amazon Web Service (Cloud), VS Code, PyCharm, Eclipse, FPGA

**Libraries:** Pytorch, TensorFlow, Pandas, NumPy, Matplotlib

## EXPERIENCE

### Full Stack Developer Intern

Mar. 2024 – Aug. 2024

Remutate

Toronto, ON

- Built a Wallet interface with dynamic transaction updates using **CSS, JavaScript, and HTML**, ensuring real-time synchronization and accurate financial data management.
- Developed a robust SMS verification system utilizing **Django** for enhanced security protocols, mitigating risks of fraud.
- Translated Figma mockups into **Next.js** web application, contributing **5000+** lines of code to front-end and back-end systems.

### Chief Technological Officer & Co-Founder

Apr. 2024 – Present

Noredio - Microsoft

Toronto, ON

- Co-founded **Noredio**, a Gen-AI song streaming platform, addressing copyright challenges in creative content; backed by **Microsoft Startups Hub**, awarded the **Moonshot Award**, and secured a **\$130k** investment.
- Led development of Noredio's app using **TypeScript** on **React Native** with a **Node.js** backend hosted on **AWS**, ensuring a scalable and responsive user experience.
- Utilized and incorporated **AI accelerator chip** to speed up the song generation process.

### Artificial Intelligence Research Intern

May 2024 – Present

Dynamic Optimization Lab

University of Toronto

- Conducted research on AI trends with **National Information Society and Ministry of Science**, re-evaluating federal laws related to AI implementation and development.
- Contributed to the **reconstruction of the Korean AI law** system by drafting **50+ pages** of research paper.
- Predicted crop yield using **deep convolutional neural networks** and implemented the **Adadelta training algorithm** to improve projection accuracy.
- Incorporated **computer vision** and **sensor fusion** techniques, enhancing accurate detection.

### Robotics Research Intern

Jun. 2023 – Aug. 2023

Control and Optimization Research Lab

Seoul National University

- Infused **Model Predictive Control** into **reinforcement learning** for autonomous driving using **ROS**.
- Implemented real-time control strategies for autonomous vehicles in high-dimensional systems, accounting for uncertainty in sensor data and environment dynamics to enhance prediction accuracy.
- Contributed to **7000+** lines of code, integrating ROS for vehicle control, obstacle prediction, and mapping systems.

### Artificial Intelligence Research Intern

Jun. 2023 – Aug. 2023

Vision and AI Lab

Korea University

- Transitioned from **Variational Recurrent Autoencoder** to **Transformer-based** architecture for heartbeat anomaly detection, achieving a performance increase from **67% to 98%**.
- Integrated **PatchCore** into **TimeSeries Anomaly Detection** in healthcare systems, enhancing system reliability.
- Contributed **10k+** lines of code to implement detection models, including **CNN, VRAE, and Transformer**.

## PROJECTS

### Heals on Wheels | Pytorch, SQLite, Arduino, OpenAI API, Scikit-Learn

May. 2024 – Aug. 2024

- Developed an autonomous medical assistant robot using **LiDAR** and **ultrasonic sensor fusion** for obstacle avoidance.
- Implemented a **Random Forest Classifier** for diagnosis and medication suggestions, integrating **GPT-3.5-turbo**.
- Centralized diagnostic data in a **SQLite database** for streamlined access, improving healthcare efficiency and accuracy.

### Exampedia | Amazon S3, Amazon Textract, AWS Lambda, Amazon API

Apr. 2024 – May 2024

- Developed a comprehensive student website using **Amazon S3** for storage and **Amazon Textract** to extract and categorize exam questions by topics and difficulty.
- Leveraged **AWS Lambda** for serverless computing to manage requests efficiently and integrated **Amazon API** for seamless data retrieval and processing.