Suyeon Park

3rd-Year Computer Engineering Student at the University of Toronto
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Education

University of Toronto Toronto, ON
Bachelor of Applied Science in Computer Engineering *Sept 2022 – May 2026*
Coursework: Algorithms and Data Structures, Operating Systems, Deep Learning, Embedded Systems, Computer Network, Introduction to Databases, Programming Fundamentals (OOP), Calculus, Linear Algebra, Probability

Technical Skills

Languages: Python, C/C++, JavaScript, TypeScript, Java, SQL, PHP, HTML/CSS, MATLAB, Assembly, Verilog
Technologies: PyTorch, Pandas, NumPy, Scikit-learn, PostgreSQL, DynamoDB, React, Node.js, Flask
Tools: Docker, Linux/Unix, Git, VS Code, Azure, AWS, RESTful APIs, Figma, Power BI, Microsoft Office

Experience

IT Project Assistant May 2023 – Aug 2023
Government of Ontario, Ministry of Transportation *Toronto, ON*
- **Led a 5-person frontend team** to develop a **CNN**-based resume screening platform using **React + Vite**, streamlining recruitment with a user-friendly interface and **MongoDB** integration for data management
- Resolved and deployed updates for the **PHP-based myEOIS website** using **Microsoft Azure**

Vice-President Finance Secretary May 2023 – Present
University of Toronto Engineering Society Finance Committee *Toronto, ON*
- Developed a **JavaScript program** that streamlines application processes, **automating documentation tasks** and reducing manual screening time from **5 hours to 30 minutes** using **Robotic Process Automation (RPA)**

Awards

[LIVE AI Ivy Plus] Havard & Duke Hackathon Feb 2025
Developed Ticketchain, a **blockchain-based NFT ticketing platform** using Solidity, Hardhat, Ethers.js, Next.js, Node.js, and MongoDB, ensuring secure, transparent, and fair event ticketing while preventing fraud and scalping

AWS Game Builder Challenge Jan 2025
Developed a 1v1 multiplayer web-based debate duel game, leveraging **AWS services (AWS Amplify, AppSync, DynamoDB, Amazon Bedrock)** for ML-driven debate topic generation and grading mechanism

AWS & IEEE Hack The Student Life - Best Project Nov 2024
Recognized for developing *SemTrack*, a **mobile app** using React Native and Node.js, integrating GPS verification and **AWS services (DynamoDB, Lambda)** to optimize seminar attendance tracking while addressing privacy concerns

Toronto Health Datathon - 2nd Place Feb 2022
Trained a **linear regression model** to predict patient's race based on SaO2 and SpO2 oxygen saturation levels

Projects

FaceChat: Real-Time Emotion-Driven Text-to-Face Animation July 2024 – Aug 2024
- Developed an **interactive chat interface with emotion-driven TTS and real-time 3D facial animation** by integrating APIs such as a sentiment analysis ML model, OpenAI, ElevenLabs, and NVIDIA Audio2Face

GIS Safety Map: SafeCity Jan 2023 – Apr 2023
- Developed a **GIS-based map in C++ with ezgl**, integrating past crime data and real-time traffic API to highlight high-risk areas, improving safety awareness and navigation efficiency
- Optimized the **A* algorithm** to achieve **93% of pathfinding searches under 100ms** and enhanced multi-route planning efficiency by 23%, with 60% of test cases yielding a Quality of Result (QoR) score below 110,000

FPGA Karaoke Program: My Heart Will Go On Mar 2023 – Apr 2023
- Developed a karaoke program in C on FPGA with VGA display, achieving the **highest score in the class**
- Integrated the YIN algorithm for pitch detection of an original song and utilized a faster zero-crossing rate method for user input, focusing on optimization for real-time computational efficiency