LUKE JIANU

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EDUCATION

Northeastern University   Sept. 2021 - May 2025
B.S. in Computer Science, 4.00/4.00 GPA   *Boston, MA*

Relevant Coursework	Object-Oriented Design, Algorithms & Data, Fundamentals of CS I & II
	Database Design, Foundations of Data Science, Foundations of Cybersecurity
	Logic & Computation, Discrete Mathematics, Mathematics of Data Models

EXPERIENCE

Belvedere Trading   Jun. 2023 - Aug. 2023
Incoming Software Engineer Intern   *Chicago, IL*

· Enhancing Belvedere's high-performance, low-latency proprietary technology.

Amazon Robotics   Jan. 2023 - Jun. 2023
Software Development Engineer Co-op   *North Reading, MA*

· Empowered AR teams to rapidly grow, monitor and manage their device fleets at scale by inventing and simplifying features in my team's Comprehensive Device Management solution.
· Designed a device timeline feature, providing troubleshooting insights for **30k+ devices**. This feature was vended as an AWS CDK construct, built with AWS Lambda, Dynamo, and IoT resources.
· Architected a move device system in AWS Lambda with Kotlin, enabling teams to provision robotic workcells in test sites, saving **1000+ hours** of software installs yearly for IT at production sites.
· Refactored a large, imperative-style vanilla React codebase with functional-style TypeScript & React Query, resulting in a **75% reduction** in API calls and **50% faster** loading times.

S3Global   May 2022 - Aug. 2022
Software Development Intern   *Redmond, WA*

· Built a .NET application to interface with high-speed cameras, implemented using WPF in C# and C++ interop with the camera's SDK to dump frames into shared buffers for video streaming.

Seattle Sport Sciences   May 2021 - Aug. 2021
Intern   *Redmond, WA*

· Conducted data trials for cloud-based AI/ML analysis of **30+ soccer matches**, while also performing maintenance and troubleshooting for camera hardware, network connections, and deployment tools.

PROJECTS

NUCarpool   Sept. 2022 - Present
Software Developer at Sandbox   *Boston, MA*

· Developing a web app using the T3 stack for Northeastern students to find co-op carpool groups.

Trading Bot   Jul. 2022
Participant at Jane Street's Electronic Trading Challenge   *Seattle, WA*

· Traded securities using bond penny-pinching and ADR and ETF arbitrage strategies implemented in Python, ultimately placing **10th out of 32 teams**.

TECHNICAL SKILLS

Computer Languages	Python, Java, JavaScript, TypeScript, SQL
Tools & Technologies	Vim, Git, AWS, Docker, React, Prisma, Flask