

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

Object-Oriented Design, Algorithms & Data, Logic & Computation

Coursework

Database Design, Foundations of Data Science, Foundations of Cybersecurity

EXPERIENCE

Belvedere Trading

Jun. 2023 - Aug. 2023

Software Engineer Intern

Chicago, IL

- Building a high-performance, low-latency proxy service in C++ to remove redundant network connections between data centers, resulting in a **70% reduction** in bandwidth usage for proxied services.

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.
- 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.
- Designed a device timeline feature in AWS CDK with TypeScript, providing insights for **30k+ devices**.
- 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

- Created a .NET application to interface with high-speed cameras, implemented using WPF in C# and interop with the camera's C++ SDK 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

- Placed **10th out of 32 teams** by quickly programming bond penny-pinching and ADR/ETF arbitrage strategies in Python.

TECHNICAL SKILLS

Computer Languages

C++, Java, Python, JavaScript, TypeScript, SQL

Tools & Technologies

Vim, Git, AWS, Docker, React, Prisma, Flask