

# LUKE JIANU

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## EDUCATION

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**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, Logic & Computation  
Database Design, Foundations of Data Science, Foundations of Cybersecurity

## EXPERIENCE

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**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.

**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 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

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

## TECHNICAL SKILLS

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