LUKE JIANU

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EDUCATION

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

Relevant Coursework Software Development, Compiler Design, Programming Languages
Computer Systems, Systems Security, Network Fundamentals

Teaching Assistant Logic & Computation, Daniel Patterson (Spring 2024)
Fundamentals of CS I, Daniel Patterson (Fall 2024)
Software Development, Ben Lerner and Matthias Felleisen (Fall 2024)

Research Improving Logical Student Language with Cameron Moy (Fall 2024)

EXPERIENCE

Palantir Technologies	Present
Incoming Software Engineer	*Seattle, WA*

Databricks	May 2024 - Aug. 2024
Software Engineer Intern	*Bellevue, WA*

· Extended a testing tool in Scala to evaluate the performance of a distributed OLTP database under production traffic loads.

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

· Built a low-latency, service-agnostic proxy in C++ to aggregate redundant TCP connections between datacenters, resulting in a **70% reduction** in bandwidth usage for proxied services.
· Upgraded the C# service discovery algorithm to match clients with services in the same datacenter.

Amazon Robotics	Jan. 2023 - June 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.
· Refactored a large, imperative-style vanilla React codebase with functional-style TypeScript & React Query, resulting in a **95% reduction** in API calls and **50% faster** loading times.

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

· Designed C++ tooling for benchmarking, testing, and managing **12 high-speed cameras** used to capture computer vision training data from the top youth football academies in Spain.

PROJECTS

x64 Compiler	Jan. 2024 - Apr. 2024

· Wrote a compiler for a functional language in OCaml, targeting x64 assembly with a C runtime.
· Supported modern features such as first-class functions, continuations (call/cc), and garbage collection.

TECHNICAL SKILLS

Programming Languages	Java, C/C++, Python, JavaScript, SQL
Tools & Technologies	Vim, Linux, Docker, Kubernetes, AWS, React