

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, Dean's Merit Scholarship | <i>Boston, MA</i> |
| Relevant Coursework | Software Development, Compiler Design, Programming Languages Computer Systems, Systems Security, Network Fundamentals |
| Teaching Assistant | Logic & Computation, Daniel Patterson (Spring 2024, Spring 2025) 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

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|---|--------------------------|
| Palantir Technologies | Present |
| <i>Incoming Software Engineer</i> | <i>Seattle, WA</i> |
| Databricks | May 2024 - Aug. 2024 |
| <i>Software Engineer Intern</i> | <i>Bellevue, WA</i> |
| <ul style="list-style-type: none">Enhanced a testing tool in Scala to evaluate the performance of a distributed OLTP database in a multitenant configuration.Enabled high-volume, in-order* replaying of live production traffic from several source databases onto one target DB by redesigning the tool with a producer-consumer architecture (Kubernetes & Kafka). | |
| Belvedere Trading | June 2023 - Aug. 2023 |
| <i>Software Engineer Intern</i> | <i>Chicago, IL</i> |
| <ul style="list-style-type: none">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 |
| <i>Software Development Engineer Co-op</i> | <i>North Reading, MA</i> |
| <ul style="list-style-type: none">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 new, fault-tolerant workflow in AWS Lambda with Kotlin for modifying robot location data, performing 20 times faster than the old workflow.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 |
| <i>Software Development Intern</i> | <i>Redmond, WA</i> |
| <ul style="list-style-type: none">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. | |

TECHNICAL SKILLS

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