## ANDREY PITERKIN

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## **EDUCATION**

Northeastern University

Sep 2021 - May 2025

B.S. in Computer Science, Overall GPA: 3.94 / 4.00

Boston, MA

Coursework

Compiler Design, Object-Oriented Design, Networks & Distributed Systems, Algorithms & Data, Graduate Advanced Algorithms, Operating Systems,

Programming Languages, Computer Graphics, Logic & Computation

**EXPERIENCE** Datadog

Sep 2024 - Dec 2024

Incoming Software Engineer Intern

New York, NY

**Databricks** 

May 2024 - Aug 2024

Software Engineer Intern

Bellevue, WA

· Designing extensible test framework for billing pipeline, focused on stressing resource lock-out latency for limited accounts.

MathWorks

Jan 2024 - Apr 2024

Software Engineer Intern

Natick, MA

- · Enhanced C++ fixed-point arithmetic operations in MATLAB to build full precision dot product and matrix multiplication type APIs targeting fixed-point neural nets.
- · Optimized SimuLink C codegen by selecting 50% smaller types for neural net matrix operations.
- · Built foundation for range math engine in MATLAB, increasing arithmetic operation precision by 10%.

May 2023 - Aug 2023 Amazon

Software Engineer Intern

Seattle, WA

- · Designed new service to generate risk-based disbursement policies for 9.7+ million Amazon.com sellers, saving \$600k+ dollars from bad actors while reducing seller friction.
- Implemented path-critical functionality for reserves, auditing, and disbursement service re-architecture effort with AWS, TypeScript, and Java to provide low-latency seller statistics.
- · Created scalable architecture to process 1.1 million+ seller risk scores daily with Lambda and Kinesis.

S3 Global May 2022 - Aug 2022

Software Engineer Intern

Redmond, WA

- · Developed and documented an abstraction layer in C++ for a high-speed camera SDK.
- · Implemented stream interface between abstraction layer and C#/.NET application via shared frame buffers.
- · Designed a comprehensive network-device monitoring system and error detection pipeline for the entire company device fleet, utilizing Python and SQL Server.

## AWARDS/PROJECTS

x86\_64 Compiler Jul 2022

- · Designed a dynamically-typed language compiler in **OCaml** targeting **x86\_64** with a **C runtime**.
- · Supported features such as first-class functions, continuations, and stop-the-world garbage collection.

Trading Algorithm Jul 2022

Contestant at Jane Street's Electronic Trading Challenge

Seattle, WA

· Achieved 10th out of 32 teams by implementing Python strategies for bond penny-pinching and ADR/ETF arbitrage.

SigLo Feb 2022

Hackbeanpot 2022 Winner: Most Technically Challenging

Boston, MA

· Built a hand-gesture based interface for scrolling and navigating with a computer through camera, targeted at improving navigation accessibility with MediaPipe and Pynput, published on PyPi.

## TECHNICAL SKILLS

**Programming Languages** Java, Python, C/C++, JavaScript, MySQL, Postgres

Frameworks & Technologies OpenGL, React, AWS (Lambda, Kinesis, EC2), Node, Git, TensorFlow