ANDREY PITERKIN

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EDUCATION

Northeastern University

Sept. 2021 - May 2025

B.S. in Computer Science, Overall GPA: 3.95 / 4.00

Boston, MA

Coursework

Compiler Design, Networks & Distributed Systems, Advanced Algorithms Software Development, Computer Systems, Programming Languages

EXPERIENCE

Datadog

Sept. 2024 - Dec. 2024

Incoming Software Engineer Intern

New York, NY

Databricks

May 2024 - Aug. 2024

Software Engineer Intern

Bellevue, WA

· Creating extensible test framework for billing infrastructure in **Scala and Apache Spark** to reduce system test cost and improve dev velocity.

MathWorks

Jan. 2024 - Apr. 2024

Software Engineer Intern

Natick, MA

- · Enhanced C++ fixed-point operations in MATLAB to build full precision dot product and matrix multiplication type-selection APIs, increasing precision by 7% for fixpoint neural nets.
- · Optimized SimuLink C codegen by selecting 50% smaller types for neural net matrix operations.

Amazon

May 2023 - Aug. 2023

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 architecture to process 4.9 million+ seller risk signals 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 for 12 cameras.

AWARDS/PROJECTS

Rust Operating System

Dec. 2023 - Present

· Implementing a small Rust operating system, with a focus on systematic design.

x64 Compiler

Jan. 2024 - Apr. 2024

- · Designed a dynamically-typed language compiler in **OCaml** targeting **x86_64** with a **C runtime**.
- · Supported features such as first-class functions, native continuations, exceptions, and Cheney's semi-space garbage collection algorithm.

TECHNICAL SKILLS

Programming Languages Frameworks & Technologies Java, Python, C/C++, TypeScript, Racket

OpenGL, Vim, AWS, React, Git