

# ANDREY PITERKIN

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## EDUCATION

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<b>Northeastern University</b>	Sep 2021 - May 2025
B.S. in Computer Science, Overall GPA: 3.94 / 4.00	<i>Boston, MA</i>
<b>Coursework</b>	Object-Oriented Design, Networks & Distributed Systems, Database Design, Algorithms & Data, Graduate Advanced Algorithms, Operating Systems, Programming Languages, Computer Graphics, Logic & Computation

## EXPERIENCE

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<b>Datadog</b>	Sep 2024 - Dec 2024
<i>Incoming Software Engineer Intern</i>	<i>New York, NY</i>
<b>Databricks</b>	May 2024 - Aug 2024
<i>Incoming Software Engineer Intern</i>	<i>Bellevue, WA</i>
<b>MathWorks</b>	Jan 2024 - Apr 2024
<i>Incoming Software Engineer Intern</i>	<i>Natick, MA</i>
<b>Amazon</b>	May 2023 - Aug 2023
<i>Software Engineer Intern</i>	<i>Seattle, WA</i>
<ul style="list-style-type: none"><li>Designed new service to generate <b>ML, risk-based</b> disbursement policies for <b>9.7+ million</b> Amazon.com sellers, saving <b>\$600k+</b> dollars from bad actors while <b>reducing</b> seller friction.</li><li>Implemented path-critical functionality for reserves, auditing, and disbursement service re-architecture effort with <b>AWS, TypeScript</b>, and <b>Java</b> to provide low-latency seller statistics.</li><li>Created <b>scalable</b> architecture to process <b>1.1 million+</b> seller risk scores <b>daily</b> with <b>Lambda</b> and <b>Kinesis</b>.</li></ul>	
<b>Genentech</b>	Jan 2023 - Apr 2023
<i>Bioinformatics Data Systems Intern</i>	<i>San Francisco, CA</i>
<ul style="list-style-type: none"><li>Led <b>PoC</b> on <b>Quilt</b> data versioning solution, highlighting performance gains but identifying visualization security concerns and deciding to continue using secure internal tools for data versioning and storage.</li><li>Launched a new internal data search and versioning platform utilizing <b>JSON Schema</b> and <b>Postgres</b>, resulting in a <b>160%</b> performance increase and storage of <b>500GB+</b> of medical data.</li><li>Created a <b>Python</b> SDK to streamline data storage interaction, enabling seamless queries, pagination, and <b>OAuth 2.0</b> Authorization flows for handling confidential data.</li></ul>	
<b>S3 Global</b>	May 2022 - Aug 2022
<i>Software Engineer Intern</i>	<i>Redmond, WA</i>
<ul style="list-style-type: none"><li>Developed and documented an abstraction layer in <b>C++</b> for a high-speed camera SDK.</li><li>Implemented stream interface between abstraction layer and <b>C#/.NET</b> application via shared frame buffers.</li><li>Designed a comprehensive network-device monitoring system and error detection pipeline for the entire company device fleet, utilizing <b>Python</b> and <b>SQL Server</b>.</li></ul>	

## AWARDS/PROJECTS

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<b>Trading Algorithm</b>	Jul 2022
<i>Contestant at Jane Street's Electronic Trading Challenge</i>	<i>Seattle, WA</i>
<ul style="list-style-type: none"><li>Achieved <b>10th</b> out of 32 teams by implementing <b>Python</b> strategies for bond penny-pinching and ADR/ETF arbitrage.</li></ul>	
<b>SigLo</b>	Feb 2022
<i>Hackbeanpot 2022 Winner: Most Technically Challenging</i>	<i>Boston, MA</i>
<ul style="list-style-type: none"><li>Built a hand-gesture based interface for scrolling and navigating with a computer through camera, targeted at improving navigation accessibility with <b>MediaPipe</b> and <b>Pynput</b>, published on <b>PyPi</b>.</li></ul>	

## TECHNICAL SKILLS

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<b>Programming Languages</b>	Java, Python, C/C++, JavaScript, MySQL, Postgres
<b>Frameworks &amp; Technologies</b>	OpenGL, React, AWS (Lambda, Kinesis, EC2), Node, Git, TensorFlow