

Mariia Pecherytsia

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EDUCATION

University of Washington

Seattle, WA

Bachelor of Science in Computer Science | GPA: 3.91

Mar 2022 - Jun 2026

- **Relevant Coursework:** Operating Systems, Distributed Systems, Security, The Hardware/Software Interface, Data Management, Systems Programming (C/C++), Data Structures and Parallelism, Algorithms, Compilers

TECHNICAL SKILLS

Backend: C, C++, Java, Python, Go, Node.js, PHP, Lua, MySQL, Amazon DynamoDB

Front-End: React.js, Next.js, JavaScript, TypeScript, Bootstrap, Swift UI

EXPERIENCE

Headstarter AI | SWE Fellow

Jul 2024 - present

- Taking a startup's backlog and building it to meet business requirements.

Capital One | SWE Intern

Jun 2024 - present

- Catching 1% of misclassified card transaction data (out of 180B total transactions) using a feedback loop API.
- Writing comprehensive component and live-dependency tests to ensure robust software quality and performance.
- Tools: **Python, DynamoDB, Amazon CloudWatch, AWS Lambda, Jenkins (CI/CD)**

AWS EC2 | SDE Intern

Sep 2023 - Dec 2023

- Removed security risk of having outdated machine images by automating the building of ~40 machine images.
- Increased visibility of which machine images failed to build by 100% using pipeline and metric alarms.
- Created safeguards for team's service when updating to new machine images via a gradual deployment/onboarding of machine images.
- Tools: **Python, EC2 Imagebuilder, Amazon CloudWatch, TypeScript, DynamoDB**

Capital One | SWE Intern

Jun 2023 - Aug 2023

- Increased discoverability of ~10,000 annual money laundering and fraud cases by creating an application with a central intake form.
- Streamlined investigator communication by 20% by replacing communication channels that were in use.
- Tools: **Golang, React JS, Next.js, DynamoDB, AWS Lambda, Jenkins (CI/CD)**

Mighty Coders | Backend Developer

Jan 2019 - Jan 2020

- Contributed to a cloud-based learning management system for 200+ students to access the curriculum by creating APIs using TypeScript.
- Improved usability of features by 25% by taking feedback from students I was teaching (the users).
- Tools: **DynamoDB, React.js, Node.js, TypeScript**

PROJECTS

MiniJava Compiler

May 2024

- Using **Java**, implemented scanning, parsing, AST construction, semantics checking, and x86-64 code generation.

Google for Articles

Dec 2022

- Using **C++**, developed a mini version of Google that searches for articles relevant to your query.

Campus Path Finder

Aug 2022

- Using **Python**, developed a site that finds the shortest paths between buildings on the UW campus.
- Implemented a graph ADT with breadth-first search and Dijkstra's algorithm.