

# Devashish Sood

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## EDUCATION

### Northeastern University

Boston, MA

*Honors Bachelor of Science in Mathematics and Computer Science, 3.9/4.0*

*Aug 2021 – May 2025*

**Relevant** Networks & Distributed Systems, Computer Systems, Algorithms & Data Structures

**Coursework** Probability & Statistics, Linear Algebra, Multivariable Calculus, Group Theory

## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++, TypeScript/JavaScript, Rust, Go, Kotlin, Racket, SQL

**Tools & Technologies:** AWS, Apache (Pulsar, Spark, Zeppelin), Docker, Django, React

## EXPERIENCE

### Klaviyo - Software Engineer Intern, Strategies

Jan 2024 – Jul 2024

- Increased customer metric accuracy by **50%** through bot activity exclusion in a Flask microservice.
- Improved customer lifetime value calculations by implementing async customer model versioning with Kafka.
- Helped create a silver medallion datalake layer for low-latency dynamic customer configurations.
- Conducted a **zero downtime** Django migration for **80+** routes/queue-workers via load/validation tests.
- Built a new channel attribution setting page to consolidate customer strategy options (Typescript, React).
- Accelerated internal data search by **3x** through simplification of Django model relationships.

### Toast Inc - Software Engineer Intern, Data Platforms

Jan 2023 – Jul 2023

- Enhanced RBAC security by deploying Apache Pulsar data streaming to **30** international teams.
- Reduced build times by **33%** through improved resource utilization for core functionality and tests (Java).
- Prevented SQL run-time failures by building an automated validation pipeline for materialized views.

### Sandbox

Jan 2022 – Present

#### Executive Board & Head of Recruiting

*Aug 2023 – Present*

- Managing a student software consultancy for Northeastern researchers and community (70+ members).
- Spearheaded 8 projects from ideation to release, driving technical planning and implementation.
- Planned and executed recruitment efforts for **200+** software developer and designer applicants.
- Organized 1:1s and town halls to ensure member success, identify areas for growth, and maximize impact.

#### Software Project Lead & Developer

*Aug 2022 – Present*

- Launched (from conception) a student carpooling web app with **1000s** active users per semester.
- Led and mentored 6 student developers and designers - conducted weekly 1:1s and code reviews.
- Coordinated with client and team members to establish timelines and deliver a quality product.
- Architected a React + TS dashboard and recommendation algorithm to connect commuting students.
- Integrated NextAuth with Northeastern's identity management provider to restrict app access to students.

## PROJECTS

### rust-os

Rust

- Building a bare-bones operating system (interrupts, memory management, and multitasking).

### LLM101n

Python, Rust

- Exploring deep learning techniques by building simple neural networks to large language models.

### Guitar tuner

Rust

- CLI tool that applies the YIN frequency estimation algorithm to detect notes from audio input.

### Bots

Typescript

- Chore bot to remind apartment-mates about daily chore duties.
- Spotify bot to archive monthly music likes and maintains a fresh playlist.
- Building a highly personalized LLM-based scheduling assistant for Google Calendar.

### Edulaw

Next.js, Postgres

- An education rights information resource built for Massachusetts school-parents - [edulaw.vercel.app](https://edulaw.vercel.app).