

# Eric Sun

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## EDUCATION

Northeastern University | Boston, MA

Sep. 2022 – May 2026

Bachelor of Science in Computer Science, Minor in Mathematics | GPA: 3.97/4.0

Coursework: Software Development, Algorithms, Object-Oriented Design, Database Design

## EXPERIENCE

[Capital One](#) | McLean, VA

Jun. 2025 – Aug. 2025

*Software Engineering Intern*

- Developed an automated user journey testing framework in Golang for banking products (checking and savings accounts) to validate product changes before approval, reducing manual review time by 80% and catching invalid updates early
- Integrated AWS SQS and Lambda to build an event-driven pipeline, streamlining test execution within the framework
- Automated PostgreSQL migrations via GitHub API, eliminating manual updates and accelerating production deployment
- Created a Next.js phishing simulation platform for organizations to send phishing emails and view results in a dashboard

[EnergySage](#) | Boston, MA

Jan. 2025 – May 2025

*Software Engineering Intern*

- Optimized AWS API Gateway endpoint by replacing synchronous DynamoDB calls with asynchronous calls using asyncio and aioboto3, reducing response time by 30%; verified performance gains using Datadog traces
- Developed an AWS Lambda function triggered weekly with EventBridge to cross-check supplier UUIDs between DynamoDB and NetSuite, sending email alerts using Amazon SNS for detected mismatches to prevent invoicing issues
- Built a fake review detection system using heuristics and AWS Comprehend, triggering Slack alerts for flagged reviews
- Served as Scrum Master, leading standups and backlog refinement; coordinated with PM and teammates in task planning

[TensorDock](#) | Boston, MA

Jul. 2023 – Sep. 2024

*Support & Operations Lead*

- Led day-to-day communications between customers and developers, ensuring feedback was integrated into the product
- Developed Slack integrations with server monitoring software, reducing server issue resolution time by 90%
- Implemented Python auditing software that validated data consistency between the SQL database and over 200 servers

*Product Manager of Core Cloud*

Jun. 2022 – Jul. 2023

- Created Python script to optimize database efficiency by removing 40k redundant records
- Coded new feature which allows injection of cloud-init scripts at deployment, boosting customer workflow efficiency

*Director of Engineering*

Oct. 2021 – Jun. 2022

- Engineered a Bootstrap HTML web dashboard for deploying and managing GPU servers
- Built an API with documentation for modifying server resources, enhancing server flexibility and user control
- Developed a feature enabling customers to create custom balance alerts, ensuring transparency for billing

[Northeastern University](#) | Boston, MA

Sep. 2023 – Dec. 2023

*Teaching Assistant for CS 2500 Fundamentals of Computer Science I*

- Assisted 30 students in weekly lab sessions, focusing on fundamental CS concepts such as recursion and graph traversal
- Facilitated faculty in grading student assignments, leaving constructive feedback to foster strong coding practices
- Held weekly office hours to mentor students, providing personalized support on homework and classroom concepts

## PROJECTS

[SearchNEU](#) | *React, TypeScript, SCSS, Twilio*

Jan. 2025 – Present

- Search engine used by thousands of students to find classes and receive text alerts when seats open up
- Created mobile React components to improve user experience by simplifying desktop designs and enlarging touch targets
- Added Twilio STOPALL text reply functionality to let users unsubscribe from seat notifications

[Bujava](#) | *Java, JUnit, JavaFX*

May 2023 – Jun. 2023

- Developed a bullet journal application with task queues, statistics tracking, and event management
- Adhered to SOLID object-oriented design principles, ensuring that the code is scalable and maintainable
- Constructed comprehensive test suites using JUnit to verify the application's functionality and to identify potential issues

## TECHNICAL SKILLS

Languages: Python, Java, TypeScript, Golang, JavaScript, HTML

Frameworks: React, Django, Material UI, Express, NodeJS, Pytest, JUnit

Cloud Services: AWS (Certified Solutions Architect – Associate), Datadog

Databases: PostgreSQL, DynamoDB, MySQL