

# Kavi Lu

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## EDUCATION

### Boston University

Boston, MA

Bachelor of Arts in Computer Science, GPA: 3.85/4.0

Expected May 2026

- Related Coursework: Data Structures & Algorithms, Software Engineering, Discrete Math, Linear Algebra
- Honors & Distinctions: Dean's List, QuestBridge Scholar (National College Match Finalist)

## EXPERIENCE

### Software Engineer Intern

Jan. 2026 - Present

Colt Home Services

Boston, MA

- Building internal tools, dashboards, and data-driven applications to support clean-energy and HVAC operations
- Developing Python and modern frontend applications for visual analytics and internal dashboards
- Automating workflows to reduce manual work and improve operational accuracy

### IT Engineering Intern

June 2022 - Nov. 2025

Salary.com

Waltham, MA

- Resolved 500+ technical issues across internal systems, improving system reliability and user satisfaction
- Maintained and validated Salesforce data pipelines and client records, ensuring consistent data management
- Delivered technical research presentations on company products, highlighting key findings and recommendations
- Automated Salesforce workflows to maintain clean and consistent prospect data across teams

### Computer Science Grader

Sept. 2024 - Present

Boston University, Department of Computer Science

Boston, MA

- Evaluated CS330 (Data Structures & Algorithms) assignments following rubrics and coding standards
- Provided detailed feedback on algorithm design, efficiency, and debugging strategies to support student learning
- Collaborated with instructors to review assignment solutions and maintain consistency and fairness in grading

## PROJECTS

### SRT-Generator

Python, React

- Built a FastAPI app with faster-whisper AI models to automate video-to-text generation for Adobe After Effects
- Implemented a modern React/Vite frontend supporting video uploads, processing status, and SRT downloads
- Containerized application with Docker, ensuring consistent environments and simplified deployment
- Deployed full-stack application on AWS EC2 with CloudFront for faster, more reliable access

### Pokemon Reinforcement Learning Agent

Java

- Developed an AI-driven Pokemon battle agent using reinforcement learning for self-play in a battle simulation
- Engineered a 150-feature neural-network input pipeline encoding move details and full 10-Pokemon team context, including normalized stats, type and status features, and HP ratios
- Designed and trained an end-to-end neural network-based reinforcement-learning agent connecting a custom sensor layer, epsilon-greedy policy, and reward system

### LabelIQ - Full-Stack Nutrition App

Java, React Native

- Built a production full-stack mobile nutrition app with React Native (TypeScript) and Spring Boot
- Designed and implemented RESTful APIs for authentication, food logging, and health profile management
- Integrated Gemini AI-based image analysis and USDA FDC barcode scanning via multipart uploads
- Collaborated within a 4-person Agile team to present a production application to 50+ students and stakeholders

### House of China

Next.js, Supabase, Stripe

- Developed a full-stack solution for a business use case, handling the complete ordering and payment lifecycle
- Implemented secure authentication and checkout with Supabase Auth and real-time order tracking
- Optimized PostgreSQL schemas and queries for 200+ menu items, enabling efficient data management

## EXTRACURRICULARS

### Boston University High Performance Computing (BUHPC)

Sept. 2023 - May 2024

- Collaborated on high-performance computing projects in a team environment
- Practiced applying theoretical CS concepts to real-world problems through coding challenges

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, JavaScript, TypeScript, HTML/CSS, SQL

**Frameworks/Tools:** FastAPI, Node.js, React, Tailwind CSS, MongoDB, Visual Studio Code, Git, GitHub, Docker