

Kavi Lu

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EDUCATION

Boston University

Boston, MA

Bachelor of Arts in Computer Science, GPA: 3.82/4.0

Expected May 2026

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Computer Science II, Discrete Math, Geometric Algorithms (Linear Algebra), Computer Systems, Probability in Computing

TECHNICAL SKILLS

Programming Languages: Python · Java · JavaScript · TypeScript · HTML/CSS · SQL

Frameworks/Tools: FastAPI · Node.js · React · MongoDB · Visual Studio Code · Git · GitHub · Docker

EXPERIENCE

IT Systems 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.

Academic Grader

Sept. 2024 – Present

Boston University, Department of Computer Science

Boston, MA

- Evaluated CS330 (Data Structures & Algorithms) assignments using rubric solutions 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 · Tailwind CSS*

- 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.

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 · TypeScript · 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

Personal Finance Dashboard | *Next.js · Tailwind CSS · MongoDB*

- Built a full-stack web app to track expenses and visualize spending trends using Chart.js and graphs.
- Implemented MongoDB for persistent transaction storage with add, delete, and update functionality.
- Integrated Google authentication to personalize dashboards and securely manage user data.

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.
- Stayed updated on new technologies via group discussions and peer-led sessions.