

# RUJEN AMATYA

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## EDUCATION

### Boston University

Master's in Software Development

GPA: 3.95, Summa Cum Laude

Boston, MA

May 2026

### Tufts University

Bachelor of Science, Major in Computer Science, Minor in Economics

GPA: 3.65, Magna Cum Laude, School of Engineering Dean's List

Medford, MA

May 2022

Relevant Coursework:

Computational Design, Web Development, Data Structures and Algorithms, Machine Architecture and Assembly, Data Science, Information System Analysis, Software Quality and Management, Software Design and Patterns, Advanced Programming Techniques, Digital Circuits, Functional Programming, Computational Theory, Databases, Security

## PROFESSIONAL EXPERIENCES

### SimpliSafe, Boston, MA, Software Engineer

2022 - Present

- Utilize PHP framework and NestJS with front-end development, testing/QA, and database design/management
- Implemented updates on a microservice for email service provider Braze using AWS SQS queues, S3, MySQL and REST

### Textbook Exchange Network, Tufts University, Medford, MA, Volunteer Software Engineer

2020 - 2021

- Facilitate student exchanges of buying and selling textbooks during absence of in-person events due to COVID

### Hydracor LLC, Windham, NH, Junior Developer Intern

2020

- Assisted in developing products using the latest web technologies (CakePHP, VueJS, NodeJS, SASS, PHP7)

### Tufts Tripods Diamonds, Tufts University, Medford, MA, Undergraduate Research Fellow

2020

- Assisted faculty members with a data science research project in ontology and metabolomics

### Computer Science Exchange, Tufts University, Medford, MA, Ex-Treasurer, Vice-President

2020 - 2021

- Promote computer science education and foster community within the department at Tufts

### Tufts University, Medford, MA, Undergraduate Teaching Assistant

2019 - 2021

- Facilitate in teaching an engineering course in MATLAB and a web development course

### Cyber 9/12 Strategy Challenge, Atlantic Council, New York, Participant

2019

- Developed policy recommendations tackling a fictional cyber catastrophe

## PROJECTS

### Computer Science Department Management App, Software Design and Patterns Java Project, Boston University

2025

- Implemented a course management java application using creational, structural and behavioral patterns

### CourseNotes App, Software Quality Management and Testing Project, Boston University

2025

- Designed a web application (nodeJS) for students to view, create, and manage course notes with collaboration

### World Cup Predictor, Data Science Python Project, Boston University

2024

- Compared ML models (kNN, Regression, Random Forest, Bayesian) to predict match outcomes

### rGREG, Information Structures Python Project, Boston University

2024

- Implemented a command line utility tool like GREG for searching plain-text data and analysis

### Textbook Exchange Network, Senior Capstone Project, Tufts University

2021

- Implement a reservation presell system to tackle the issue of absence of in-person exchanges

### GroundWork Somerville, JumboCode, Tufts University

2021

- Created a website to buy and sell produce to the local market for a non-profit organization

### Ontology in Metabolomics, Research Project, Tufts University

2020

- Utilized metabolomics databases to determine a computational method to label mass spectra data

### Hole Foods and Tufts Rides, Web Development Projects, Tufts University

2020

- Designed website for a donut shop selling merchandise and Tufts shuttles showing live schedule

### JumboCal, Polyhack 2019, Tufts University

2019

- Designed website that recommends available food on campus according to daily calorie needs

### HIV/AIDS Test Center Pamphlets, Florianopolis, SC, Brazil

2018

- Designed pamphlets with information about the 50 HIV/AIDS test centers in Florianopolis

### Solar Air Heater, Asia Pacific Conference for Young Scientists, KL, Malaysia

2015

- Researched and presented on the application of solar air heater using recyclable materials

## SKILLS

C, C++, Python, SML, Racket, Ruby, HTML, CSS, JS, PHP, MATLAB, NodeJS, NestJS, Django, React, MongoDB, SQL, AWS