

Bidipta Roy

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EDUCATION

Boston University

B.S. in Computer Science, Minor in Entrepreneurship.

Relevant Coursework: Data Structures, Algorithms, Databases, Computer Systems, Full Stack Web Development, Object-Oriented Programming, Embedded Systems

Boston, MA

Expected December 2027

SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL, C, HTML/CSS, Assembly

Frameworks: React, Next.js, Node.js, Express, Flask, Django, Tailwind CSS

Databases: PostgreSQL, MongoDB, Prisma, pandas

Tools: Git, AWS, Vercel, REST APIs, CI/CD, Vitest, OpenAI API, Figma, Claude Code

PROJECTS

EcoRoute

Feb 2026

2nd Place Overall, BU Civics Hackathon; 1st Place, Environmental Track

- Led a five-person team through a 36-hour hackathon, coordinating a dashboard team and data team to ship on time.
- Built a web dashboard tracking 84 smart waste bins across three BU campuses that flags overflowing bins and recommends collection timing and location based on foot traffic.
- Wrote a Python data pipeline that cleans Boston open data and campus sensor readings into one database powering the app; added secure admin login and deployed it live.

Personal Finance & Academic Tracker

Sep 2026

Full-Stack Web App

- Built and self-hosted an app tracking income, expenses, investments, net worth, GPA, and a unified calendar on a 21-table PostgreSQL database; used daily.
- Built authentication with password hashing, two-factor login, one-time recovery codes, and rate limiting against brute force attacks.
- Set up automated checks that fail the build if any protected action ships without a login check, keeping UI off the database.
- Wrote 360 unit tests and 273 end-to-end test checks; stored money as whole cents to eliminate rounding errors.

NoGi BJJ Trainer

Dec 2025

Full-Stack Learning Platform

- Built and deployed a learning platform with 19+ technique lessons across 6 categories, a comment section, and live quizzes with real-time vote tallying.
- Added user profiles and comments via a secure backend API, with a mobile-friendly interface that auto-deploys on every update.

EXPERIENCE

UI/UX Designer Intern

May 2026 – Present

Hack4Impact, Boston University Chapter

- Meet weekly with nonprofit clients including MassINC to gather requirements and write specs for an applicant tracking system; delivered one hi-fi prototype to the SWE team for implementation.
- Design wireframes and user flows in Figma for job application and admin login screens ahead of engineering handoff.

Owner, Moving & Packing Services

May 2026 – Aug 2026

TaskRabbit & Direct Clients

Boston, MA & Long Island, NY

- Generated nearly \$50K in revenue across 100+ moving and packing jobs, earning a 5.0-star average across 30 client reviews.
- Recruited and managed subcontractors across New York State, routing overflow leads to them on a 50% commission split.
- Handled quoting, scheduling, and client communication end to end for both platform and direct-hire clients.

Swim Coach & Instructor

Sep 2021 – Aug 2023, May 2025 – Aug 2026

SWIMTastic Swim School; Long Island Swim School

Long Island, NY

- Taught 100+ students ages 4-12 and coached youth and adult swimmers 1:1; managed the weekly schedule for all instructors.

ACTIVITIES & LEADERSHIP

Brazilian Jiu Jitsu Club, Boston University

Sep 2024 - Present

Secretary

- Oversee club operations and event planning; built an internal learning dashboard for members to track techniques.