

Martin Hema

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Co-op Availability: July 2025 – December 2025

EDUCATION

Northeastern University

Boston, MA

Candidate for B.S. in Computer Science

September 2023 – May 2027

Honors:

Dean's List Award (x3)

GPA: 3.87/4.00

Activities:

Kappa Theta Pi, Northeastern Electric Racing

Relevant Coursework:

Object-Oriented Design, Database Design, Mathematics of Data Models, Algorithms & Data, Computer Systems, Discrete Structures

TECHNICAL SKILLS

Languages:

TypeScript, Java, SQL, Python, HTML/CSS, Racket

Frameworks/Technologies:

Git, React.js, Node.js, Express.js, RESTful APIs, PostgreSQL, Docker, Figma, MUI, Next.js, Tailwind CSS, Supabase, Flask

PROJECTS

Cookable | React, Node.js, PostgreSQL, TypeScript, React Query, Docker, *In Progress*

December 2024 - Present

- A social web platform for users to author, save, and share personalized cookbooks and recipes
- Developed with React and Express.js, enabling real-time sharing, image hosting, and self-publication features
- Built a secure JWT authentication system using PostgreSQL and bcrypt, ensuring user protection and reliable validation
- Dockerized containers for frontend, backend, and database services, offering seamless deployment and development

CollegeRanks | React, Supabase, TypeScript, MUI, Chart.js, Vercel

July 2024 - Present

- A global university ranking web platform for comparing, filtering, and ranking 9,000+ universities worldwide
- Utilized Supabase for OAuth, storage, and dynamic search, streamlining logins and reducing query responses to <100ms
- Implemented a live bar-chart leaderboard and responsive review form for personalized comparisons with advanced filtering, aggregated queries and weighted average metrics, resulting in increased user engagement

AudioAnalytica | React, Node.js, TypeScript, Spotify Web API, Flask, Python, Docker, Fly.io

July 2024 - Present

- Analytical platform blending Spotify music stats with AI to deliver personalized insights and listening trends
- Integrated TensorFlow-powered neural networks to analyze feature-based similarity scores using Euclidean distance
- Developed dashboards with React, TypeScript, and requests through the Spotify Web API via an Express.js server, allowing users to explore top tracks, genres, and most common audio features like tempo and danceability

LEADERSHIP AND WORK EXPERIENCE

Founder & Co-President

May 2024 – Present

Kappa Theta Pi Professional Technology Fraternity

Boston, MA

- Founded Northeastern's first professional co-ed fraternity, united by a passion for technology, community, and innovation
- Fostered a community of 60+ academically, socially, and professionally driven members through two recruitment cycles
- Hosted 12+ events including hackathons, resume workshops, co-op panels, social retreats, and philanthropic fundraisers, boosting community engagement and increasing recruitment interest by 40% across semesters

Student Innovation Developer

November 2024 – December 2024

Khoury College of Computer Science

Boston, MA

- Enhanced the Khoury Odyssey learning platform, enabling skill-building through interactive async courses ("droplets")
- Built a responsive Create Droplet page with Figma, Next.js, and Tailwind CSS, expediting course creation workflows
- Developed modular form components (dropdown, tag, text-field, radio) to standardize aesthetics and maintainability

Software Tech Lead

January 2024 – October 2024

Northeastern Electric Racing

Boston, MA

- Spearheaded features for a project management dashboard used by 200+ engineers for electric race car development
- Led a team of 11+ developers, facilitating Agile sprints, ticket reviews, and ensuring project milestones were met
- Created React components in TypeScript for the Design Review and Change Requests pages, utilizing Prisma ORM for database interaction, React Query hooks to access the backend, and data transformers for seamless processing

INTERESTS

Spoken Languages:

English (Fluent), Albanian (Native), Greek (Fluent), French (Intermediate)

Hobbies:

Film, Cooking, Hostel Travel, Jazz, Literature, Basketball, Fashion, Inter-railing