

# Lilly Ohr

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## EDUCATION

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**Bachelor of Science in Computer Science** and Bachelor of Arts in Linguistics **May 2024**

**Boston College**, Chestnut Hill, MA

- Courses: Operating Systems, Computer Vision, Natural Language Processing, Linear Algebra, Statistics
- Co-founder and President of the Boston College Linguistics Club

## WORK EXPERIENCE

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**Geaux Network** **Apr 2024 – Aug 2024**

Software Engineer Intern

Remote

- Resolved a critical npm polyfill issue that blocked updates to the main GitHub repository for 2 months
- Designed and implemented the backend for in-app checkout, including server configuration, database design, routing, and integration with the Stripe API
- Designated as co-team lead responsible for overseeing and managing progress on tasks for other interns

**Boston College**

**Sept 2023 – May 2024**

Software Engineering Research Assistant Under Professor Mira Yun

Chestnut Hill, MA

- Researched the benefits of HCD principles for how colleges can best utilize their alumni network
- Created a full stack web application using React, MongoDB, and Node.js for 9000+ undergraduates

**Boston College**

**Jan 2023 – May 2024**

Teaching Assistant - Computer Systems, Text Processing, Web App Development

Chestnut Hill, MA

- Graded assignments, provided feedback, and held weekly 4-hour long office hours for 300+ students
- Reduced grading time by 20% by developing a Python script to automate styling checks

## AWARDS

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**Grand Prize and Best Use of Auth0 Prize - Boston College Hackathon** **Nov 2023**

- Awarded first place among 100+ participants by developing a full stack (MERN) mentorship application
- Earned Best Use of Auth0 Prize by integrating Auth0 with backend JWT token validation

## PROJECTS

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**Boston College Course Evaluation App** | [GitHub Code](#) | React.js, Node.js, Express.js, MongoDB, Firebase Auth

- Created a MERN stack web application with CRUD functionality to address the lack of an intuitive platform
- Developed a back end web service to handle user authentication with Firebase and JWT token validation

**Personal Dashboard** | [GitHub Code](#) | React.js, Node.js, Express.js

- Built a personal dashboard to centralize regularly browsed data through RESTful APIs
- Created a web server to fetch real-time data from Canvas, Alpha Vantage, Open-Meteo, and Quotable APIs

**Markov Chain Music Generator** | [GitHub Code](#) | Python

- Built an algorithm to generate classical music using a trigram Markov chain stochastic model
- Calculated transition probabilities for notes, duration played, and velocity to produce authentic compositions

## SKILLS

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**Programming Languages:** JavaScript, TypeScript, Python, C, HTML, CSS

**Frameworks/Technologies:** React, Express.js, Node.js, MongoDB, PostgreSQL, MySQL, Git, AWS EC2, Vite