

## Eytan Mobilio

New York Metropolitan Area | [eytan.mobilio@gmail.com](mailto:eytan.mobilio@gmail.com) | [github.com/EMobilio](https://github.com/EMobilio) | [linkedin.com/in/eytan-mobilio](https://linkedin.com/in/eytan-mobilio)

Portfolio: [eytanmobilio.dev](https://eytanmobilio.dev)

---

### Education

Boston University, Boston, MA

September 2021 – May 2025

Bachelor of Arts in Computer Science

Honors: *summa cum laude* (GPA: 4.00)

---

### Relevant Coursework

- Computer Science Fundamentals
  - Data Structures
  - Computer Systems
  - Discrete Math
  - Analysis of Algorithms
  - Linear Algebra
  - Probability in Computing
  - Software Engineering
  - Distributed Systems
  - Database Systems
  - Full Stack Software Engineering
  - Web Development
  - Artificial Intelligence
  - Machine Learning
  - Data Science
  - Programming Languages
- 

### Experience

**Course Assistant: Probability in Computing** | Department of Computer Science | Boston University September 2024 – May 2025

- Assisted in leading 50-minute weekly discussion sections, reinforcing key concepts and facilitating problem-solving exercises
- Held weekly office hours to help students with course material, clarify concepts, and provide guidance on homework assignments
- Graded weekly homework assignments, ensuring timely and constructive feedback to support student learning and improvement

**Grader: Analysis of Algorithms** | Department of Computer Science | Boston University January 2024 – May 2024

- Graded 300 student solutions to long-form algorithm problems including pseudocode, proofs of correctness, and proofs of runtime and space complexity
- 

### Projects

**MarketDig** | Website: [marketdig.netlify.app](https://marketdig.netlify.app)

- Specialized in development of the frontend of a market research tool for aspiring small business owners using React and Redux, delivering a responsive and user-friendly interface
- Developed web scraping scripts with Playwright to efficiently gather data for backend integration
- Played a key role in design and development of application architecture, optimizing overall structure and performance, while also assisting in debugging and troubleshooting backend code to maintain system stability and reliability

**FlickPick** | Website: [limitless-sierra-80433-a3b989f436f9.herokuapp.com/project/](https://limitless-sierra-80433-a3b989f436f9.herokuapp.com/project/)

- Designed and developed a full-stack web application with Django, enabling users to browse, review, and receive recommendations for movies and TV shows stored in a SQLite database
- Designed and implemented personalized recommendation systems using user preferences and social features including friend-based suggestions
- Created a trending page with interactive line charts using Pandas and Plotly to visualize weekly movie/TV trends
- Delivered a robust platform that enhanced user engagement and discoverability through features like ratings, reviews, watchlists, and personalized recommendations

**Tetris Agent** | GitHub: [github.com/EMobilio/tetris-agent](https://github.com/EMobilio/tetris-agent)

- Developed a temporal difference learning Q-agent in Java using neural network and linear algebra libraries (developed for a course) to play Tetris
  - Engineered features, devised neural network structure, and developed a custom reward function to guide learning
  - Trained on hundreds of thousands of games, improving performance from consistently scoring 0 points to clearing dozens of lines per game
  - Leveraged reinforcement learning principles to transform random gameplay into more strategic decision-making
- 

### Skills

#### Technical Skills

- Proficient- Python, Java, HTML, CSS, JavaScript, React, Next.js, Django, Git/GitHub
- Intermediate- Redux, React Native, Express.js, SQL, MongoDB, Go, OCaml
- Familiar- C

#### Soft Skills

- Problem-solving and analytical thinking
- Adaptability and quick learning
- Team collaboration
- Written and oral communication