

# Emma Pham

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## EDUCATION

University of Houston

Expected Graduation: May 2026

Bachelor of Science in **Computer Science**, Minor in **Mathematics**

GPA: 3.90

**Relevant Coursework:** Data Structures and Algorithms, Data Science and Machine Learning, Software Design, Database Systems

**Awards & Honors:** Academic Excellence Scholar Recipient, Dean's Distinguished Scholars List

## TECHNICAL SKILLS

**Languages:** C++, Python, R, Java, JavaScript, SQL, HTML/CSS, TypeScript, C, MATLAB

**Frameworks & Libraries:** React.js, Node.js, Express.js, TailwindCSS, Material-UI

**Developer Tools:** VS Code, GitHub, Git, Jenkins, RStudio, PyCharm, Linux, MySQL, Figma, Mural

## EXPERIENCE

University of Houston, Computer Science Department

September 2024 – Present

Teaching Assistant

Houston, TX

- Instructing **200+** students in Automata and Computability, focusing on automata theory and formal languages
- Delivering office hours to **35+** weekly students for topics such as finite automata and Turing machines
- Guiding **210+** students through foundational concepts of **computational models**, including decidability, and complexity theory

IBM

June 2024 – July 2024

Software Development Track Accelerate Program Participant

Houston, TX

- Selected among top 5% of applicants, chosen as one of 175 participants out of 10,000+ applicants for IBM's 8-week intensive summer program focused on high-potential undergraduate students
- Advanced programming skills in the Software Development Track, with a **focus on React.js**, and mastered collaborative coding environments
- Gained hands-on experience with **front-end and back-end** technologies, **generative AI**, cloud-native development, REST APIs, **web app security**, event handling, and UI/UX design

## PROJECTS

Personal Portfolio | **HTML/CSS, Tailwind CSS, GitHub**

September 2024

- Created a custom-built, responsive website to showcase a diverse range of projects and professional experience, leveraging modern web technologies for an optimal user experience

To-do List Application | **HTML/CSS, JavaScript, React.js, Node.js, Express.js, Material-UI**

June 2024 – July 2024

- Developed a dynamic To-Do List application using React and Material UI, improving task management and productivity by up to 50% with features like timestamped tasks, completion tracking, and duplicate entry prevention

Coogify | **React.js, Node.js, TailwindCSS, TypeScript, MySQL, Figma, UI/UX**

January 2024 - April 2024

- Orchestrated the development of an innovative **full-stack web application** alongside a team of 4, transforming music streaming; boosted average user session length by 50% and reduced app crashes by 35%
- Engineered a seamless integration of **frontend and backend** functionalities from scratch, delivering a tailor-made platform that redefines user engagement

## LEADERSHIP & ACTIVITIES

Computer Science Girls | **University of Houston** | Houston, TX

Secretary

May 2024 – Present

- Host online hackathons every 2 weeks for UH students to hone their coding skills via the Kattis platform, increasing engagement by **40%**
- Create and publish monthly newsletters for 30+ members of the organization

## CERTIFICATIONS

**IBM Accelerate - Software Developer**, IBM

**Artificial Intelligence Fundamentals**, IBM

**Cybersecurity Fundamentals**, IBM