

# Omar Abbas Haque

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## EDUCATION

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**University Of Massachusetts**

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

Amherst, MA

*Aug. 2024 – May 2028*

## COURSEWORK

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Data Structures(Java), Introduction to C programming, Multivariable Calculus

## PROJECTS

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**Tech Support Assistant** | *React, TailwindCSS, OpenAI API, Amazon AWS EC2*

August 2024

- Developed a chatbot with the functionality to answer questions related to a specific company or organisation
- Implemented OpenAI API as the LLM
- Used React and TailwindCSS for frontend, deployed to Amazon AWS EC2 servers

**Professor Recommendation Chatbot** | *Pinecone, React, MaterialUI, OpenAI API*

August 2024

- Developed a chatbot which recommends professors to the user based on criteria specified by them
- Used vector embeddings to search professor reviews from a JSON file and match user's criteria

**Inventory Management** | *Firebase, React, MaterialUI*

July 2024

- Developed a website to track an inventory of items
- Implemented firebase to keep track of the items in the inventory

**Plinko simulation** | *JavaScript, p5.js, matter.js*

March 2021

- Developed a realistic simulation of a plinko game using matter.js as the physics engine, and p5.js for rendering

**Maze generator** | *JavaScript, p5.js*

June 2021

- Developed a maze generator, which generates a valid maze with a guaranteed start and end point
- p5.js used for rendering

## TECHNICAL SKILLS

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**Languages:** Java, Python, C, JavaScript, HTML/CSS

**Frameworks:** React, Next.js, React Native, Material-UI

**Developer Tools:** Git, Pinecone, OpenAI, LangChain, VS Code, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib, p5.js, matter.js, TensorFlow, scikit-learn