

Keerthana Jayamoorthy

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EDUCATION

Worcester Polytechnic Institute (WPI) | Worcester, MA | May 2026

Bachelor of Science in Computer Science | Dean's List

Minor in Law and Technology

Relevant Coursework: Operating Systems, Software Engineering, Machine Org & Assembly Language, Human-Computer Interaction, Machine Learning (ML)

SKILLS & CERTIFICATIONS

Languages: JavaScript, Python (TensorFlow & Keras), HTML/CSS, Java, C, C++, C#, SQL

Technologies: ReactJS, ExpressJS, NodeJS, Artificial Intelligence (AI)/ Machine Learning (ML) frameworks

Databases: Oracle, PostgreSQL, MongoDB, MSSQL Server

Cloud Platforms: Microsoft Azure, Amazon Web Services (AWS)

Tools: Git, GitHub, Eclipse, Visual Studio, Figma, Postman, Adobe Creative Cloud, MS Office Suite

Certification in Deep Learning | DeepLearning.AI

Jun 2024

2024 Complete Web Development Bootcamp | Udemy

Sep 2024

EXPERIENCE

Behavioral Technician, LEARN Behavioral | Worcester, MA

Nov 2023 – Aug 2024

- Assisted clients with autism, aged 3 to 12, in developing and social skills
- Tracked progress to monitor improvements and areas for growth

PROJECTS

Custom Shell Implementation [[GitHub link](#)]

Aug 2024 - Oct 2024

- Worked with a partner to develop a custom shell in C, implementing features such as process management and command execution using system calls
- Implemented intrinsic command handling for built-in commands such as cd, jobs, and exit, optimizing command execution flow
- Designed and developed a pipe-stream mechanism to enable efficient command chaining and inter-process communication
- Managed dynamic memory allocation for environment variables and variable assignments, ensuring robust memory management

MNIST Number Classifier [[GitHub link](#)]

Jun 2024 – Aug 2024

- Developed an AI model leveraging TensorFlow to classify handwritten digits using the MNIST dataset
- Built an interactive web interface using ReactJS, enabling users to upload handwritten images for classification
- Deployed the model using Flask and integrated it with a front-end to demonstrate end-to-end application functionality

Research on Status of Pollinators – Hong Kong, China [[GitHub link](#)]

Jan 2025 – Mar 2025

- Worked with 3 other students from my university to work with a conservation group called Beetales to take data on the number of pollinators at public parks and popular hiking trails.
- Partnered with a classmate to develop a collaborative website using GitHub
- Designed wireframes in Figma and implemented the layout using the Material-UI library
- Utilized React on Vercel to showcase our research findings