

Harsh Patel

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Education

Illinois Wesleyan University, Bloomington, IL
Bachelor of Science, May 2025 | *Major*: Computer Science

Skills

Programming: Python, C++, C#, Rust, SQL, Java, JavaScript, HTML, CSS, Flutter

Tools & Version Control: Git/GitHub, AWS

Frameworks & Libraries: MEAN Stack, React.js, PyTorch, TensorFlow, Pandas

Internship & Relevant Experience

Helpdesk Support Specialist | *IWU Information Technology*, Bloomington, IL November 2024 - Present

- Provide exceptional hardware and software support, resolving technical issues efficiently
- Manage ticketing system to track and prioritize support requests.
- Set up and configure hardware including printers, copiers, and other peripheral devices
- Build and deploy Windows images both manually and through deployment agents

Software Engineering Intern | *Knobull*, Exeter, RI (Remote) September 2024 - Present

- Collaborate with a team to develop and test an academic search engine using the MEAN stack (MongoDB, Express.js, Angular, Node.js); balance part-time internship with full courseload.
- Write clean, modular code using CSS, HTML, JavaScript, React.js, and Python to support dynamic features and database integration.
- Deploy the web application to Heroku for cloud-based testing and continuous integration.
- Participate in code reviews and testing to ensure optimal performance and adherence to best practices.

Web Editor | *IWU Mathematics Department*, Bloomington, IL August 2023 - May 2024

- Developed interactive elements and content layouts for departmental website, adhering to accessibility guidelines and front-end frameworks.

Projects (Github Link- <https://github.com/Harsh-Patel1>)

Full-Stack Workout Application June 2024

- Engineered a workout application with a small team, leveraging AI to customize workout plans based on user fitness goals (e.g., lifting-based goals); self-directed project.
- Implemented with React, Tailwind CSS, Flask, and PostgreSQL, using an AGILE methodology.
- Integrated video tutorials for exercises, providing users with visual guidance to ensure proper form.

Checkers AI Development April 2024

- Developed an AI for playing Checkers using Python and PyTorch, leveraging reinforcement learning with Deep Learning; improved AI model accuracy by 20%..
- Trained the AI model with over 1,000 iterations, improving decision-making accuracy and win rate.
- Developed and optimized machine learning models and using computer vision techniques.

Related Coursework

Data Analysis (Fall 2024)

- Enhanced skills in programming, statistical analysis, and data visualization to drive data-driven insights and support informed decision-making.

Deep Learning (Spring 2024)

- Reviewed mathematical foundations, implementation of neural network optimization in Python, and a number of applications of deep learning, including machine vision and natural language processing.

Software Development (Fall 2023)

- In-depth study of the software development process, from planning and UI design to coding, testing, and maintenance; worked with technical writing and client communication.

Campus Involvement

AI Club (President)

South Asian Student Association

International Collegiate Programming Competition

Men of Color