

Ashish Gaurav Surapuraju

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Education

Purdue University, Fort Wayne•

August 2020

Engineering Technology and Computer Science (ETCS), Bachelor of Science — Computer Science

Concentration 1: Computer Science

Courses: Java, Python, Software Engineering, C language, Debugging, C#, OOPs, DBMS & Swift UI

Work Experience

Student Admission Representative (STAR)

JAN 2023 – Current

Fort Wayne, IN | *Admissions Office*

- Conducted campus tours, events, and orientation programs for prospective students.
- Collaborated with admission counselors to enhance recruitment efforts.
- Promoted a positive campus experience for prospective students

Projects

AI Skill Recommendation

JAN 2024 – MAY 2024

(Python) (C#) (MudBlazor) (Git) (GitHub) (CSS) (HTML)

- The Occupation Skills Recommender AI uses NLP and machine learning to analyze user occupations, job responsibilities, and industry trends.
- It matches this data with a vast job description database to offer personalized skill development recommendations, covering technical, soft, and domain-specific skills, as well as degree requirements and salary ranges.

Employee Database Search Engine

MAR 2023 – MAR 2023

(JAVA) (Database) (DBMS) (Git) (GitHub) (JavaScript) (Java8) (GUI)

- The application includes files for an employee database that users can customize.
- It enables searching based on position and location, merging databases, and modifying employee details.
- The GUI allows users to interactively add, remove, and manage employees.

AI Pac-Man

MAY 2024 – MAY 2024

(Python) (Google Collab) (AI) (Git) (GitHub) (ML) (DQN) (CNN) (PyTorch)

- Developed a Deep Convolutional Q-Learning (DCQN) model for playing Pac-Man using PyTorch, achieving significant performance improvements by leveraging convolutional neural networks.
- Implemented a reinforcement learning pipeline, including state preprocessing, experience replay, and target network updates, resulting in efficient and stable training over 2000 episodes.
- Integrated Gymnasium environment for real-time game simulation and evaluation, successfully training the model to solve the MsPacmanDeterministic-v0 environment and visualizing the results with video rendering.

Certifications

Microsoft Office Specialist Master Certification (MOS)

MAR 2020 - Present

- MOS certified: proficient in Microsoft Office Suite for efficient productivity and data management.

Foundational C# with Microsoft

MAY 2024 - Present

- Earned a foundational certification in C# from Microsoft, demonstrating proficiency in object-oriented programming, data structures, and software development best practices.

Leadership Experience

Key Club – Volunteer Member

Engaged in Key Club service: fundraisers, cleanups, shelter aid, and education support. Demonstrated leadership and social responsibility

FBLA — Member

Engaged in leadership and business activities: project collaboration, workshops, and networking for career preparation.

Skills & Interests

Technical Knowledge: Java, Python, C#, C Language, Xcode, VScode, Swift UI, Artificial intelligence

Skills: Lucid Charts, Excel, Adobe Photoshop, PowerPoint, Word, Outlook, Photography, Volleyball, Badminton

Soft Skills: Self Starter, Problem solving, Organizational skills, Risk Management, Startup Vision, Multitasking, Teamwork, Quick Learner