Pradeep Kumar Ramesh

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science in Computer Science   Expected Dec 2022
Cumulative GPA: 3.43/4.00 | **Dean's List:** Aug 2021, May 2022 | President Scholarship Grant, Sodexo Employment Scholarship

Panimalar Institute of Technology, Anna University, Chennai, India
Bachelor of Science Electrical and Electronics Engineering   Aug 2017 – May 2021
Electives: Object Oriented Analysis And Design, Data Structures and Algorithms, Mobile Computing, Computer Networks, S/W Engineering
Cumulative GPA: 3.45/4.00

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, JavaScript
Operating System: Ubuntu, Windows, Linux, Unix
Web Technologies: Html, CSS, PHP, React
Databases: Oracle, MySQL, PL/SQL, MongoDB
Cloud Technologies: Hadoop, Docker, Amazon Web Services, Google Cloud Platform
Tools: Arduino, Eclipse, Dbeaver, Anaconda, Putty, Microsoft Office Suite, Google Workspace, PyCharm, Visual Studio Code
Relevant Coursework: Operating Systems, Data Mining, Database Systems, Design and Analysis of Algorithm, Intro to Artificial Intelligence, Computer Architecture & Organ, Computer Security, Design Pattern
Certifications: Java Programming (With Honors), Programming with Java Script (With Honors), SQL Programming, Programming with Python, Tata Consultancy Service ion Career Edge

RESEARCH EXPERIENCE

Database Systems | Student Registration System | Binghamton, NY   Mar 2022 - May 2022
● Created a student registration system that helps students to register themselves for courses using CRUD operations
● Applied PL/SQL Procedures, Sequences, and Triggers used JDBC to connect
● Designed GUI using Java Swing application framework
● Proved the Student Registration System to be less time-consuming, less complex, and equally effective for the students

Operating System | Chatroom in C | Binghamton, NY   Jan 2022 - May 2022
● Developed a kernel module in C, for implementing a chatroom where multiple users can communicate simultaneously
● Utilized the system for communication as well as synchronization between device drivers in the kernel
● Compared several commands for Linux in C to identify communication pass-on techniques
● Achieved a 100% accuracy in synchronizing the communication between the drivers

Artificial Intelligence | Pacman's Domain | UC Berkley | Binghamton, NY   Aug 2021 - Dec 2021
● Created different ways to play Pacman's game using AI techniques, where these concepts underly real-world application areas such as natural language processing, computer vision, and robotics.
● Applied an array of AI approaches, such as informed state-space search, probabilistic inference, and reinforcement learning
● implemented standard machine learning classification algorithms using Naive Bayes, Perceptron, and MIRA models to classify digits. Also extended this by implementing a behavioral cloning Pacman agent.
● Proved the Pacman System to be more efficient with Probabilistic inference in a hidden Markov model that tracks the movement of hidden ghosts in the Pacman world

Baccalaureate Thesis: AI-Based Price Negotiating Chat-Bot System | Chennai, India   Jan 2021 – May 2021
● Developed and implemented a chatbot system for the analysis of customer negotiation behavior on an e-commerce website
● Created and trained chatbot using python and ChatterBot library, the bot is able to negotiate the price with the buyers without any delay of response
● Conducted customer survey which proved flexible marketplace price attracted more customer flow to the e-commerce website
● Presented the thesis paper at an annual IEEE conference in Chennai, India (PITTC 2021). The conference paper has been published in the International Research Journal of Engineering and Technology (IRJET), with the Paper ID: FTP8032927

PROFESSIONAL EXPERIENCE

Chief of Elections Officer | Graduate Student Organization | Binghamton, NY   May 2022 – Present
● Oversees and validates that the elections of the University are held as per the bylaws
● Chair member of the management board and the election committee

Graduate Assistant | Binghamton, NY   Aug 2021 – May 2022
● Collaborated with the Professor to identify any special needs of the students
● Assisted in building coursework, curriculum, and subject material for undergraduate and masters-level courses
● Guided students in the domain of Artificial Intelligence and tutored the basics for selected students to improve their performance

Infoziant Systems Private Limited | Research Intern | Chennai, India   Jul 2018 – Aug 2018
● Completed a 4-week internship with the research team to gain experience with IoT modules
● Developed and executed the IoT automation module, used the "IoT Gas Detection System" of an MQ6 sensor module by using Arduino IDE and AT mega 328 microcontroller
● Utilized the code to successfully improve and increase the efficiency of the existing automation process for the company

ACHIEVEMENTS AND AWARDS

● Awarded the 'Best Project Award' for the 'AI Based E-commerce Chat-Bot System' in 'Project Expo-2021' conducted by Anna University
● Winner of the 'Standout award' for incredible contribution to project delivery during PIT Project Expo - 2020
● Awarded the 'Best Project Award' for the 'IoT Smart Environmental Monitoring Robot' in Project Expo-2018 conducted by Anna University