# Mohamed Aarif

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## EDUCATION

**Purdue University** — **January 2024 - December 2025**
***Degree:*** *Master of Science* ***& Major:*** *Computer Science* — **Fort Wayne, USA**

**PSG College of Technology, Anna University** — **July 2015 - May 2019**
***Degree:*** *Bachelor of Engineering* ***& Major:*** *Robotics and Automation* — **Coimbatore, India**

## KEY COMPETENCIES & SKILLS

***Programming Languages & Frameworks:*** Java, Python, C#, R, JavaScript, TypeScript, SQL, GraphQL, SpringBoot & Microservices, Django, REST API, Angular, React, HTML5, CSS, MEAN & MERN stack
***DevOps & Cloud:*** Docker, Amazon AWS, Azure, Jenkins
***Tools & Platforms:*** Camunda, Github, Hadoop, Apache Kafka, MATLAB Simulink, Adobe Photoshop & Illustrator
***Methodologies & Courses:*** Agile Methodology, SDLC, Deep Learning, Natural Language Processing

## PROFESSIONAL EXPERIENCE

**BNP Paribas India Pvt Ltd** — **January 2023 - December 2023**
***Associate Consultant*** — **Chennai, India**

- Developed and implemented the CUBE web application including designing algorithms, streamlining the client onboarding process for over 200+ clients digitally using Java, Angular, and Camunda for workflow management.
- Deployed Docker images to live servers after each sprint cycle, improving deployment efficiency by 30%, collaborated with the Client Marketing Life-cycle team under the Department of Wealth Management to enhance operational workflows.

**Mindox Techno India Pvt Ltd** — **April 2022 - December 2022**
***Software Engineer*** — **Coimbatore, India**

- Created software for the Equipment Front End Module (EFEM) application in C# following SEMI guidelines.
- Enhanced code stability by 50% by designing and implementing a functional library package for SECS/GEM communication which is used to test the status of the operating machine

**Infosys Limited** — **November 2019 - April 2022**
***Senior Software Engineer*** — **Mysore, India**

- Developed deployable software for a chatbot application, handling both frontend and backend, resulting in a 5x increase in user count. Trained chatbot with Deep Learning and NLP models for small talk purposes.
- Conducted lectures and led events, such as Matrix AI, to educate employees on AI and Data Science concepts.
- Collaborated in designing syllabus content for courses on topics like OpenAI GPT-3 and Time Series Analysis.

## INTERNSHIP

**Caterpillar India Pvt Ltd** — **January 2019 - June 2019**
***Project Intern*** — **Chennai, India**

- Developed automation code for the Hierarchical Model Integration (HMI) model useful for building Electronic Control Unit (ECU), reducing integration time from 3-4 days to 30-40 minutes, using MATLAB Simulink tool.

## ACADEMIC PROJECTS

**INVENTORY CONTROL MANAGEMENT SYSTEM** — **February 2024 - April 2024**

- Created a fully functional Inventory Control System with advanced features, leveraging Big Data Analytics for real-time decision-making and IoT-based monitoring for automated management.
- Built the system using Python Django and RESTful APIs to ensure seamless integration and scalability.
- Improved operation efficiency and provided critical insights using Kafka for real-time event streaming and Hadoop for large-scale data processing

**CROSS-LINGUAL TRANSFER LEARNING USING BART** — **February 2024 - May 2024**

- Developed a framework for zero-shot classification that utilizes the BART model to perform cross-lingual tasks without the need for extensive language-specific training data using tensorflow.

**SCORBOT ROBOTIC ARM** — **June 2018 - December 2018**

- Implemented new controller and joystick interface using NodeMCU - ESP8266 controller for material handling
- ***Individual Role:*** Set up the robot environment and programmed the controller using Diffie-Hellman (DH) algorithm

**SMART INCUBATORS** — **June 2018 - December 2018**

- Developed a POC for a PLC controller incubator with added features like IoT and sensor fusion.
- ***Individual Role:*** Programmed and integrated the entire controller, streamlining system performance and functionality
- Secured second prize in paper presentation at Kriya2k18 for the same, showcasing the project's innovative design.