

Surya Punna

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EDUCATION

- **Master of Science in Engineering Data Science** **May 2025**
University of Houston, Houston, Texas GPA: 3.94/4.00
- **Bachelor of Technology in Electronics and Communications Engineering** **June 2022**
Jawaharlal Nehru Technological University, Hyderabad, India GPA: 3.74/4.00

TECHNICAL SKILLS

Programming Languages, Databases: Python, Java, C++, C#, R, Microsoft SQL Server, MySQL, MongoDB, DynamoDB, Linux.

Cloud Computing and Devops: AWS (EC2, S3, RDS, Lambda, IAM, EKS, CloudFormation), Docker, Kubernetes, Azure, GitHub Actions.

Web Technologies and Version Control: HTML, CSS, JavaScript, Angular, React, Nodejs, Express Postman, FAST API, Git, GitHub.

Machine Learning and Artificial Intelligence: NumPy, Pandas, TensorFlow, scikit-learn, PyTorch, Neural Networks, NLP.

Tools and Frameworks: VS Code, Jupyter Notebook, MS Office (word, PowerPoint, Excel, Teams), dotnet core, dotnet framework.

WORK EXPERIENCE

Teaching Assistant, University of Houston, USA

January 2024 – Present

- Delivered over 60 tutorial and lab sessions, enhancing student engagement and comprehension of complex course material while fostering a collaborative learning environment that improved overall academic performance.
- Conducted review sessions and additional resources, leading to a 15% improvement in class averages on programming assignments and exams.

Software Development Engineer, Verisk, India

July 2022 – Dec2023

- Deployed applications on **AWS**, leveraging services such as **EC2** and **S3**, and implementing **CI/CD** pipelines to reduce deployment cycles by **25%** and improve scalability.
- Implemented a CI/CD pipeline using **25% AWS** (Code Pipeline, EC2, S3, Lambda), Accelerated deployment processes, achieving a 30% improvement in speed and increasing reliability.
- Automated email generation workflows, Minimized manual workload by 40%, improving team productivity and communication using **Angular** and **DotNET Framework**.
- Created a tool using **Angular** and **.NET Framework** to automate test case creation and synchronization with **Gherkin** syntax, Reduced repetitive tasks by 40%, boosting overall operational efficiency.
- Leveraged **CI/CD**, **Infrastructure-as-Code** (Terraform), and **BDD workflows** to enhance software quality, ensure alignment with business requirements, and optimize project delivery.

Automation QA intern, Verisk, India

Jan 2022 – Jun 2022

- Built APIs in **C#** with **90%** functionality coverage, improving software reliability and quality assurance
- Enhanced automation frameworks, increasing testing capabilities and reducing manual intervention.

PROJECTS

Team Dashboard

March 2023

- Designed and developed a responsive team dashboard utilizing **Angular** and **Node.js**, integrating automation tools that delivered real-time updates, reducing data retrieval times by an average of 30 seconds per query.
- Deployed the dashboard on AWS with CI/CD pipelines, ensuring seamless delivery and Streamlined deployment cycles, enhancing efficiency by 20 %.

Machine Utilization Monitoring and Reporting

August 2023

- Built a system to monitor CPU and RAM utilization using **DotNET Core** and **PowerShell**, automating weekly reports to stakeholders.
- Hosted on **Windows IIS** with performance optimization and Achieved a 30% reduction in manual report generation time, earning recognition for excellence in automation.

Ride Easy Taxi Management ([link](#))

September 2024

- Developed a comprehensive taxi management system with a **Node.js** backend and **React** frontend, improving booking efficiency.
- Integrated **Express.js** APIs to optimize communication, reducing server response times by **25%** restarts.

ACHIEVEMENTS

- Awarded a full 100% government scholarship for undergraduate studies in acknowledgment of academic achievements.
- Mentoring the students in helping them with coding and programming related to DSA.