

VAMSEE GOPAL MEDURI

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PROFESSIONAL EXPERIENCE

SONATA SOFTWARE

Bengaluru, India

Digital Engineer / Senior Digital Engineer

2020-2024

- Contributed to the **development** and **maintenance** of a leading international travel and tourism company's backend systems, ensuring seamless operations and an intuitive user experience.
- Implemented migration of high-priority sections of the project from a monolithic architecture to standalone micro-services, resulting in a **90% reduction in deployment time**, enabling swift development and bug resolution.
- Worked extensively with AWS functionalities like EC2, ECS, Lambdas and CloudWatch.
- Collaborated with cross-functional teams, along with Product Managers and Solution Architects, to design and implement scalable and efficient solutions.
- Received **15 company and peer nominated awards** for delivery excellence, team collaboration and leadership.

BARIFLOW LABS

Vellore, India

Electronics and communication intern

2019-2020

- Led the design for the control and navigation system of a mobile water aeration system.
- Developed the electronic connection maps for an early prototype of the aeration system.

VOLTAS

Mumbai, India

Summer internship

2019-2019

- Monitored Voltas' industrial chillers at their Remote Monitoring Center, by studying discrepancies in their sensor data.
- Designed a jig that could test faulty microcontrollers for incorrect voltage and current.

EDUCATION

THE UNIVERSITY OF BIRMINGHAM (ONGOING)

Birmingham, UK

MSc Artificial Intelligence and Machine Learning

since 2024

- Machine Learning, Neural Computation, Natural Language Processing, Visualization

VELLORE INSTITUTE OF TECHNOLOGY (VIT)

Vellore, India

Bachelor of Technology in Electrical and Electronics Engineering (GPA 8.52/10)

2016-2020

- Probability and Statistics, Differential Equations, Discrete Math, Neural Networks, OOP, Digital Signal Processing
- Honors:** Merit Scholarship Award
- Leadership:** Technical Head of the IEEE Power and Energy Society, VIT (IEEE PES)

LAXMAN DEVRAM SONAWANE COLLEGE

Mumbai, India

Higher Secondary School (GPA 77.38/100.0)

2015-2016

K.N.T. PUBLIC SCHOOL

Mumbai, India

Secondary School (GPA 89.00/100.0)

2013-2014

PROJECTS

RANDOM MARKOV TEXT GENERATOR (JAVA)

- Created a random text generator that implements a Markov Chain to predict what words would come next.

LEARNING MANAGEMENT PORTAL (JAVA)

- Created a LMS portal to demonstrate my understanding of JAVA fundamentals.
- Users can log in, add and remove courses.

CHARACTER RECOGNITION USING ARTIFICIAL NEURAL NETWORKS (PYTHON)

- Studied how an Artificial Neural Network works in real time by implementing one to recognize handwritten characters.
- Experimented with the test data and number of nodes to see how it affects training time and accuracy.

SPEED CONTROL OF A PMDC MOTOR USING MODEL PREDICTIVE CONTROLLER (MATLAB)

- Simulated a PMDC motor outputs whose speed is being controlled by a feedback-enabled model predictive controller (MPC) to study the benefits of it over traditional speed control strategies.

ADDITIONAL INFORMATION

- Programming Languages : Java, Python, Javascript, Go, HTML, CSS, SQL, Kotlin
- Frameworks and Libraries : Spring boot, Quarkus, Micronaut, NodeJs, Maven, Gradle, SAP Hybris
- Cloud and Devops : AWS, JIRA, Jenkins, Docker, Kubernetes, Datadog
- Databases : AWS RDS, MySQL, AWS DynamoDB
- Development Practices : Unit tests and integration tests, code reviews, low-level designing, agile methodologies
- Ongoing academic skills : AI and ML fundamentals, Scikit-learn, Tensorflow, PyTorch
- Leadership and Collaborations : Leading planning and development meetings, mentoring junior colleagues, initiating wellness checks with the team