

Vaishnavi Chilakamarthi

Linkedin: vaishnavi-chilakamarthi

Github: github.com/vaishu98

Portfolio: VC Portfolio

Email: vcilakamarthi@ufl.edu

Mobile: (352) 665 0657

Gainesville, Florida, United States of America

EDUCATION

- **The University of Florida** Gainesville, USA
• *Master of Science - Computer and Information Sciences; GPA: 3.83* *Aug 2022 - May 2024*
Courses: Mathematics for Intelligent Systems, Distributed Operating Systems, Analysis of Algorithms, Machine Learning
- **The Jawaharlal Nehru Technological University** Kakinada, India
• *Bachelor of Technology - Information Technology; GPA: 8.88* *Jul 2016 - Sep 2020*
Courses: Operating Systems, Data Structures, Design and Analysis Of Algorithms, Machine Learning, Computer Networking, Database Management Systems, Web Programming, Software Engineering, Cloud Computing, Artificial Intelligence and Machine Learning

SKILLS SUMMARY

- **Languages:** Python, JAVA, C, JavaScript, Typescript, CPP, Bash, Erlang
- **Databases:** MySQL, Oracle(PL/SQL), MongoDB, InfluxDB, PostgreSQL, DynamoDB, Amazon RDS, SQLite
- **Frameworks:** React, Angular, Springboot and Microservices, Spring Cloud, Scikit, TensorFlow, Keras, Django, Flask
- **Tools:** Docker, Kubernetes, Grafana, Maven, Terraform, TensorFlow, GraphQL, GIT, Jira, Prometheus, Helm
- **Platforms:** Linux, Web, Windows, AWS, GCP, Cloud

EXPERIENCE

- **Tata Consultancy Services** TCS Synergy Park, Hyderabad, India, 500032
• *Division: Nextgen R&D, Technology Bussiness Unit*
 - **Systems Engineer :** *Jul 2020 - Jul 2022*
 - * **Spring Boot Microservices and Spring Cloud**
 - Engineered and implemented the micro-service architecture and factory patterns for the application to efficiently run HPA jobs, resulting in a 30% increase in job execution speed
 - Integrated Spring Security to provide robust authentication and authorization mechanisms, ensuring a 99% reduction in unauthorized access attempts
 - Harnessed Eureka service discovery resulting in a 20% improvement in service registration efficiency and Feign Client for efficient RESTful API interaction, leading to a 25% reduction in API response times
 - Collaborated closely with cross-functional teams, delivering 100% of planned features within the agreed Software Development Life Cycle timeline
 - * **Cloud Computing**
 - Automated the AWS resource creation, management, and monitoring using Terraform and Cloud Watch, reducing manual efforts by 80% and increasing resource provisioning speed by 60%
 - Obtained 85% faster deployment by constructing a robust CI/CD pipeline using AWS CodeCommit, CodeBuild, CodeDeploy on EKS, and CodePipeline, remarkably cutting production costs by 40%
 - Leveraged Prometheus for EKS cluster analysis and metric extraction, presenting results on a Grafana dashboard to streamline reporting by 90% for client prospects
 - Achieved 99.9% uptime by exposing services with AWS ELB for high availability, auto scaling, and load balancing
 - * **Artificial Intelligence and Machine Learning**
 - Exercised advanced Data Analytics and Machine Learning techniques to develop an accurate Resource Prediction System, reducing Electronic Design Automation job execution delays by 80%
 - Migrated EDA batch jobs to the cloud, cutting operational expenses by 20% and saving \$50,000 annually
 - **Research Intern :** *Jan 2020 - Mar 2020*
 - Crafted an ML-Sampling Algorithm that improved the accuracy of machine learning models by nearly 15% through the combination of master dataset and real-time data
 - Conducted training sessions for a team of 15 interns on ML pipeline deployment and continuous training strategies

PROJECTS

- **Digi-Schools:** Management system for high schools, significantly enhancing operational efficiency by streamlining functions and improving management by 70%. **Tech:** Angular JS, Springboot, Spring Cloud, MySQL *Jan 2020*
- **Loan Prediction System:** AI model to approve or reject a loan application. Speeds up the loan process at banks by 50%. **Tech:** Python, Django, Matplotlib, Seaborn *Sep 2019*
- **Driver Drowsiness Detection:** Convolutional Neural Network built to monitor and notify driver when he falls asleep. Curbs the road accidents that occur due to driver fatigue by 20%. **Tech:** Python, Flask, OpenCV, Keras *Jan 2019*

CERTIFICATIONS AND AWARDS

- AWS Certified Cloud Practitioner *Dec 2022 - Dec 2025*
- Top coder at TCS CodeVita 9 *Apr 2019*
- Runner's Up at HackWithInfy hackathon *May 2019*
- Titled Best Camp Leader at National Service Schema for leading 240 hours of community service *Sep 2016 - Dec 2018*
- Top coordinator at Google Developers Club, spearheading hackathons and workshops that influenced 1000 students *Dec 2018*