

# Vaishnavi Chilakamarthi

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Gainesville, Florida, United States of America

## EDUCATION

- The University of Florida** Gainesville, USA  
*Master of Science - Computer and Information Sciences; GPA: 3.83/4.0* 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: 8.88/10.0* 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

- The University of Florida** Gainesville, FL, USA  
*Citrus Research and Education Center, Animal Sciences Lab*
  - Graduate Student Assistant :** Aug 2023 - Dec 2023
    - Engineered Foodrator, a dynamic web application that processed over a million product combinations and analyzed more than 1000 flavors, resulting in comprehensive ratings and trend-based scoring.
    - Drove a significant 20% reduction in bounce rate through the implementation of a robust back-end, leveraging Django and PostgreSQL, and optimizing the front-end with React, Recharts, and Material UI.
    - Developed a comprehensive Animal Sciences Lab website, optimizing user experience and providing streamlined access to research, publications, and lab resources.
    - Spearheaded the development of the "Zirakamwa" app, a leading tool for farm ration and cattle management, implementing features for optimal livestock nutrition and efficient farm operations.
- Tata Consultancy Services** TCS Synergy Park, Hyderabad, India, 500032  
*Division: Nextgen R&D, Technology Business Unit*
  - Systems Engineer :** Jul 2020 - Jul 2022
    - Designed microservice architecture and factory patterns for NEURED, an HPA job execution platform, enhancing job execution speed by 30%. Implemented Spring Security, resulting in a 99% reduction in unauthorized access attempts.
    - Implemented Eureka service discovery for a 20% improvement in service registration efficiency and utilized Feign Client to reduce API response times by 25%, all while collaborating cross-functionally for on-time delivery of 100% planned features within the Software Development Lifecycle timeline.
    - Automated AWS resource management using terraform scripts, reducing manual efforts by 80%, increasing provisioning speed by 60% and, cutting production costs by 40%.
    - Leveraged Prometheus for EKS cluster analysis and metric extraction, streamlining reporting by 90%. Attained 99.9% uptime with AWS ELB for high availability and load balancing.
    - 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.

## 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
- CareerGPT - Won ShellHacks 2023:** A full-stack Django web application designed to empower users in their career journeys. Offers features, including personalized role recommendations, skill gap analysis for desired roles, resume section enhancement based on job descriptions, and in-depth strength and weakness analysis. **Tech:** Django, OpenAI, HTML/CSS Sep 2023
- 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 the 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 CodeVita 9 conducted by Tata Consultancy Services Apr 2019
- Runner's Up at HackWithInfy hackathon conducted by Infosys 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