

Vivek Narukurthi

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EDUCATION

- **Texas A&M University - College Station** Texas, United States
Master of Computer Science *Aug 2023 - May 2025*
 - **Coursework:** Artificial Intelligence, Software Engineering, Analysis of Algorithms
- **Vellore Institute of Technology** Vellore, India
Bachelor of Technology - Electronics and Communication Engineering; GPA: 9.12 *July 2017 - June 2021*
 - **Coursework:** Data Structures & Algorithms, Computer Architecture, Probability Theory, Network Security

SKILLS SUMMARY

- **Languages:** Python, C++, Java, JavaScript, MySQL, React.js, Node.js, Ruby on Rails
- **Tools:** Docker, Kubernetes, Git, Ansible, Terraform, CI/CD (Jenkins, GitHub Actions), Cloud Custodian
- **Platforms:** AWS, GCP, Azure, Linux Bash, Powershell, MATLAB
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- **Eli Lilly and Company** Bangalore, India
Cloud and App Modernization Engineer (Full-time) *July 2021 - July 2023*
 - Assisted in migrating and enhancing the logs exporting solution into a fully self-reliant, server-less solution on AWS, leveraging services such as DynamoDB, ECS, Lambda, SES, and more.
 - Developed a Python-based policy monitoring dashboard on AWS, incorporating real-time alerting mechanisms to promptly notify the team of any policy breaches.
 - Designed a Python solution for monitoring and updating the health status of all our Landing Zone CloudFormation resources in a centralized manner, facilitating efficient resource management and remediation.
 - Created Python scripts to seamlessly integrate Splunk Observability Cloud with AWS services like Systems Manager and Step Functions, which were instrumental in managing server patching processes.
- **Niyo Solutions** Bangalore, India
Information Security (Internship) *Dec 2020 - June 2021*
 - Developed a JavaScript, Python security plugin for Google Workspace, enabling automatic document classification (Google Docs, Sheets, Forms) based on data sensitivity.
 - Automated alert notifications for security incidents (SOC) with a focus on high-impact alerts. Maintained an AWS instance hosting our SIEM tool (Wazuh) while actively monitoring security dashboards.

PROJECTS

- **Engage Net:** Developed a full-stack chat application using React.js and Node.js. Implemented state management with Recoil and integrated JWT authentication. Utilized WebSockets to support real-time functionality. Implemented a GitHub Actions (CI/CD) workflow for deployment. (November '23)
- **Student Knowledge System:** Developed a Ruby on Rails web app for instructors to manage student records across courses. Utilized Docker and Heroku for containerization and deployment. Implemented a CI/CD pipeline, database storage, and a quiz mini-game using spaced repetition algorithm for enhanced student recognition. (August '23)
- **Mental Health Companion Chatbot with AWS Lex:** Developed and deployed an AWS Lex-powered chatbot designed to provide compassionate mental health support, offering personalized interactions, resources, and 24/7 availability to users in need. The chatbot played a crucial role in enhancing mental health well-being, while also collecting valuable data for ongoing improvement in mental health services. (July '21)
- **Object Follower Robot using Python:** Developed Python code using OpenCV, later integrated into a Raspberry Pi, to enable a robot to track and follow specific colored objects via webcams. Enhanced navigation by incorporating Ultrasonic sensors into the hardware framework. (July '20)

CERTIFICATIONS

- AWS Certified Developer Associate - Amazon Web Services (AWS)
- AWS Certified Solutions Architect Associate - Amazon Web Services (AWS)
- AWS Certified Cloud Practitioner - Amazon Web Services (AWS)
- Microsoft Certified Azure Fundamentals - Microsoft
- Proficiency in Python Scripting - Edureka
- Cisco Networking Basics Specialization - Coursera

VOLUNTEER EXPERIENCE

- **Member at National NGO Becoming I Foundation (B.I.F)** Vellore, India
Initiated campaigns to spread awareness on health & hygiene, helped organize free medical camps *Nov 2020*