Pavan Sree Pichuka

LinkedIn GitHub

A dedicated and fast learner who eagerly embraces new challenges and continuously seeks to expand skills in software engineering and development. My goal is to secure a challenging position within a professional organization, where I can not only enhance my skills but also align with the company's values and goals.

📞 +1-(343)-777-3834   ✉ ppich075@uottawa.ca   📍 73 Harvey Street, Ottawa, ON. ZIP: K1S 0A8

ACADEMIC QUALIFICATION

Master of Engineering in Electrical and Computer Engineering   **Sept 2023 - Present**
University of Ottawa, Ottawa, Canada
- Expected Graduation Date: April 2025

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript, Java (Intermediate), Object Oriented Programming(OOP).
Server-Side Languages: NodeJS, Express JS.
Database Technologies: SQL, MS SQL, PostgreSQL, Oracle, Non-Relational - MongoDB.
Scripting Languages: Groovy, Python, Bash, Ansible.
Cloud Platforms: AWS.
Infrastructure as a code (IaC): Terraform(Hashicorp Tool), AWS Cloudformation.
Configuration Management: Ansible.
CI/CD: Jenkins.
Containerization and Orchestration tools: Docker, Kubernetes.
Version Control: GitHub.
Operating Systems: Windows, Linux.
Agile/Scrum Tools: Jira, Confluence.
Technology: DBMS, Data Structures and Algorithms, Data processing using Python.
Area of Expertise: Software Development, Database design, AWS Cloud Infrastructure design, Full stack development.
- In-depth understanding of the Software Development Lifecycle (SDLC) life cycle.
- Skilled in working with both Agile and waterfall models.
- Proficient in Microsoft Office Suite and Operating systems such as Windows, Linux, etc.
- Proficient in Jira contributing to effective project management and streamlined workflow processes.

INTERPERSONAL SKILLS

- Strong interpersonal communication skills, excelling in both documentation and written communication.
- Proficient in problem-solving, active listening, and leadership, with a proven ability as a team worker and to lead a team to work in a fast-paced environment.
- Excellent time management abilities, collaboration skills, and have ability to work independently.
- Self-starter, organized, and have excellent written and verbal communication skills.

CERTIFICATIONS

- AWS Cloud Practitioner Certification in 2022
- AWS Developer Associate (Infosys Certified)
- MongoDB Developer (Infosys Certified)
- Front-End Web Developer (Infosys Certified)

PERSONAL PROJECT

Cost Optimization using AWS Lambda

- The project's main aim is to save the unnecessary stale costs charged by AWS for the resources.
- Created a Lambda function that identifies EBS snapshots that are no longer associated with any active EC2 instance and deletes them and also sends a notification if any S3 bucket is not in use for more than 90 days to save on storage costs.
- Used python for coding lambda function and used boto3 to interact with AWS EBS and S3.

Infrastructure Development - Customized EC2 Instance

- The project main aim is to build infrastructure in AWS for a basic application using terraform.
- Developed terraform modules for building infrastructure in AWS and utilized various AWS services like EC2, Internet Gateway, Route Table, Route Table Association, Security Groups, Subnets, VPC.

WORK EXPERIENCE

GAOTek Ltd.   **May 2024 - Present**

Project 1: Technical Support Intern

Building infrastructure of the application using Terraform on AWS Cloud.

Responsibilities:

- Primarily worked as a Backend Developer for an electrical equipment manufacturing client web-based application project.
- Worked on technologies like NodeJS, Python, and ExpressJS, supported frontend in implementing upload and download features using AngularJS, and used AWS S3.
- Implemented data conversion from Excel to JSON to perform quality validations in the backend.
- Developed a RESTful API with a routing algorithm to upload the data to the database after validation or routing them to an Excel file with failed records with error results.
- Additionally, designed and worked on code to eliminate the redundancy of records while bulk uploading the data into the database.
- Troubleshooted performance issues. optimized SQL query to reduce the latency substantially.

Project-2: DevOps Engineer (AWS, Docker, Jenkins)

Project aims to decouple the applications that have a shared database and resources and upgrade the existing application.

Responsibilities:

- Primarily worked as a DevOps Engineer for the client project, contributing significantly to its success.
- Experience in a wide range of tasks, including analysis, design, and implementation of terraform (Infrastructure as Code) to build infrastructure on the AWS cloud platform.
- Developed terraform modules by collaborating with product and development teams for building infrastructure (IaC) to an application on AWS cloud which includes services like VPC, lambda, S3, EC2, RDS, API Gateway, and cloudwatch enhancing infrastructure scalability and reliability.
- Implemented logging, security, and health monitoring management leveraging monitoring tools like AWS CloudWatch to gauge resource utilization and optimize resource allocation.
- Developed and maintained the automated CI/CD pipeline using Jenkins and GitHub actions.
- Managed deploying containers on Docker, and also developed repeatable processes for automation, configuration, monitoring, and alerting using Ansible.
- Skilled in performing root cause analysis and problem resolution during production release.
- Experienced in utilizing version control systems - GitHub and in project management tools like - Jira, ITSM.
- Led the deployment and maintenance of highly available web applications and services on AWS by implementing release management methodology, ensuring smooth and efficient software releases, continuous uptime, and performance.