PAVAN KUMAR K

+91 8618443437   pavancs088@gmail.com   Blog   linkedin.com/in/pavan-kumar-k-   github.com/PAVAN28GIT

EDUCATION

B.E, Computer Science Engineering   **July 2025**
MS Ramaiah Institute of Technology, Bengaluru   *Current GPA:* 8.8

Course Work: Operating Systems , Object Oriented Programming , Networking , DBMS , Data Structures & Algorithms.

TECHNICAL SKILLS

Languages: C++ , Java , JavaScript , Python.

Web Development: Node.js , Express.js , React.js , MongoDB.

Technologies: AWS (EC2, VPC, S3) , GitHub , GitHub Actions , Docker.

WORK EXPERIENCE

AWS APAC   Link   **September 2024**
Solution Architect Virtual Experience   *Read more*

- **Tech Stack : Amazon EC2 , Route53 , S3 , Load Balancer , Auto Scaling Groups , CodePipeline .**
- Received a problem statement from a client facing issues with slow response times, crashes at peak time, deployment downtime, and a lack of disaster recovery.
- Designed a simple and scalable hosting architecture based on Virutal Private Cloud, Auto Scaling groups and CodePipeline for improved scalability, reliability, and effective disaster recovery.

PROJECTS

Blogging Web App   GitHub | Live Demo   **July 2024**

- **Tech Stack : Node.js , Express.js , MongoDB , GitHub Actions , Docker.**
- Built a web application using Node.js , Express.js with MongoDB as database, allowing users to create, view, update and delete blogs with JWT-based authentication for login and logout.
- Automated the CI/CD pipeline with GitHub Actions, containerized the application using Docker, and deployed the application on Kubernetes for efficient scaling.
- Achieved zero downtime and 99.9% uptime by implementing Blue-Green Deployment strategy on Kubernetes.

WeatherWiz – Real-Time Weather App   GitHub | Live Demo   **October 2024**

- **Tech Stack : React, Tailwind CSS, OpenWeatherMap API.**
- Developed a real-time weather app using React and Tailwind CSS for the frontent and integrated the OpenWeatherMap API to fetch live weather data.
- The app allows users to view the current weather conditions, a detailed daily summary, and a 5-day forecast.

VPC Based Cloud Hosting Solution   Link   **September 2024**

- **Tech Stack : Amazon VPC, EC2, Elastic Load Balancer (ELB), Auto Scaling Groups.**
- Designed a virtual private cloud to host servers in a production environment, achieving 60% reduction in downtime risk using multiple availability zones and load balancers.
- Secured sensitive resources from direct internet exposure using private subnets, NAT gateways and security groups.
- Implemented Auto Scaling Groups to automate server deployment and scaling within private subnets, increasing availability and reducing manual intervention.

LEADERSHIP

IEEE RAS, RIT   Link   **Jan 2024 – Present**
Chairperson

- ⁕ Leading a team of 16 members in planning and executing impactful technical events and organizing 20+ events including meetings, workshops and competitions, that foster student engagement and collaboration.