Mayur Khadde

mayurkhadde49@gmail.com | bashlogs.github.io| github.com/bashlogs

Skills

Languages: Java, Python, C, TypeScript, PHP, Shell, Lua
Frameworks: Flask, Next.js, Springboot, React.js
Tools: Vim, Git, Github, Docker, Kubernetes, Postman, Terraform
Platform: Arch Linux, AWS, Azure, Datadog
Core Skills: DSA, System Design, OOPS, Operating System, Memory Management

Experience

Software Engineer Intern, IDeaS - A SAS Company – Baner, Pune   Jan 2025 – Present
- Worked on on-prem/aws server-to-server communication to design custom metrics for monitoring and observability.
- Automated the storage scaling process of database servers using lambda function triggered by threshold-based alerts.
- Improved downtime handling functionality to support 24x7 operations and designed a system to mute alerts from ECS clusters, EC2 instances, and on-prem servers concurrently.
- Designed a website to showcase new Datadog courses, helping new employees learn about monitoring and alerting.
- Performed index stats analysis on database servers to help developers optimize queries and enhance performance.
- **Skills Acquired -** AWS, Boto3, On-prem server, Shell Scripting, CI/CD, Python, Bootstrap

Projects

VITUNIX OS - A Lightweight and Secure Operating System | Arch Linux, Shell, Package Management   Website
- Created a high-performance, open-source Linux-based operating system optimized for minimal resource consumption running efficiently with less than 400MB RAM post-boot.
- Achieved significant community engagement with **4,000+ views**, **1,020+ downloads** on Foss Torrents, and **500+ downloads** on SourceForge.
- Integrated lightweight and customizable window managers such as Bspwm, Openbox, and i3, along with modular package support, resulting in a 40% reduction in boot time.

NIVESH- Financial Tracking System | React, Express, Python, Hugging Face, Finbert Models, MongoDB   Github
- Engineered cross-platform compatibility (web and mobile) finance tracking platform, featuring real-time budget analytics, expense management, and budget optimization tools.
- Implemented news sentiment analysis in a stock prediction system using three **FinBERT models** and an automated news collection pipeline, achieving **89% prediction** accuracy by processing real-time financial news.
- Developed a paper trading simulation platform to get hands-on investment practice, significantly enhancing user engagement and learning.

Feedback Management System | PHP, Bootstrap, Javascript, HTML   Github
- Developed a web app to manage feedback from an institution with over **5000 feedbacks** per season.
- Automated course outcome calculations based on feedback and designed dashboards to display key statistics.

Achievements

- Completed **CKAD Certification** and achieved expertise in Kubernetes, Clustering Designs and Helms.
- Secured **Top 5** Spot at Cummins Hackathon organized by UBS.
- Published research paper at **REDCYSEC 2023** about Vitunix OS and its lightweight performance in linux systems.
- Publish a research paper on the A9G-based Dementia GPS Tracker device designed to assist people with dementia.
- Secured a spot at the Titan Design Impact Movement, showcasing the A9G-based Dementia Tracker and making a meaningful impact on people with dementia.

Education

Vishwakarma Institute of Technology   Aug 2022 - May 2025
B.Tech in Computer Engineering | CGPA - 8.97
Cusrow Wadia Institute of Technology   July 2019 - May 2022
Diploma in Computer Engineering | Percentage - 94.65