Khanh Vong

vongk7@gmail.com
314-359-3245

Professional Summary

Software Developer and System Administrator with over four years of professional experience. Proven track record in maintaining and optimizing servers hosting over 350 websites on the cloud. Expertise includes automations in Python and Bash, and leveraging modern web technologies to deliver robust solutions. Strong background in cloud computing (AWS), automations, and programming. Adept at applying programming concepts like Algorithms, OOP, and RESTful APIs to enhance web application and infrastructure performance.

Skills

Languages:
Python, C, JavaScript, PHP, Next.js, React, MySQL, GraphQL, Node.js, WordPress
Tools:
AWS (EC2, RDS, S3, Lambda), Cloudflare, Proxmox, Docker, Linux, Git/GitHub, SSH/SFTP
Concepts:
OOP, Algorithms, MVC Web Pattern, REST API, ML/DL(course work)

Work Experience

Lead Web Developer at **Beanstalk Web Solutions**
Duration: 2020 - present

Developed applications ranging from data dashboards, and ecommerce websites, to certification portal for exporting sustainable crops.
Worked closely with cross-functional teams including design and project management.
Lead and assist in the development of new web apps with technologies ranging from WordPress, React, Next.js, PHP, MySQL, GraphQL, Node.js.

Architect and manage seven AWS EC2 instances.
Ensure maximum uptime using AWS Cloudwatch and Alarms for continuous 24/7 monitoring.
Leverage AWS Lambda and S3 buckets for regular and automatic backups
Created lifecycle policies for backups to optimize storage costs.

Implemented horizontal scalability and load balancing for a monolithic architecture using AWS: Route 53 for networking, ELB for load balancing, EC2, RDS database, EFS - file storage.

Education

Bachelor of Science in Computer Science
University: University of Missouri-St. Louis
Graduation Date: May 2020
Honors: Magna Cum Laude

Personal Projects

Sleep Inducing Media Center

Created a plug and play Media Center to help users develop a psychological trigger to fall asleep faster.

Developed a custom episode-scheduling algorithm for a television-like experience, maximizing randomness in episode playback.

Home Proxmox Server Setup

Configured a Proxmox server at home for virtualization, hosting multiple VMs and containers. Managed storage, networking, and security to ensure smooth operation of various services. Services includes:

- Local Cloud Storage: Network-wide cloud gaming, media center, and backups.
- Local AI: Containerized LLM with online-search, and image generation capabilities.

Neural Network Image Generator

Leveraged state-of-the-art Convolutional Neural Network (CNN) models to extract image content and style.

Generated unique images by applying mathematical concepts to tweak various aspects of the generated output.