Vishal Gandla

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Education

Master of Science in Computer Science, August 2023 - May 2025
University of Georgia, Athens
CGPA: 4.0/4.0

Bachelor of Technology in Electronics and Computer Engineering, July 2016 – May 2020
Vellore Institute of Technology University, Chennai
CGPA: 3.37/4.0

Skills

Programming Languages:
Java, Python, JavaScript, C, C++, TypeScript, Shell Scripting, R, CMake, Perl, HTML, CSS

Backend:
Spring Boot, Spring Security, Spring Data JPA, ExpressJS, Django.

Libraries:
ReactJS, AngularJS, PyTorch, RxJS, Redux, AWS S3 SDK, JSON Web Token, Bcrypt, Sequelize ORM, Multer, JavaScript Canvas.

Databases:
PostgreSQL, MySQL, MongoDB, Redis, Sybase SQL Server

Software & DevOps Tools:
Docker, Kubernetes, Apache Kafka, Postman, Git, GitLab CI/CD**,** GitHub Actions, NGINX, Google Tag Manager, Google Analytics.

Cloud Services:
AWS (EC2, RDS, S3, Route 53, VPC, IAM, CloudFront, ECR, CloudWatch), Azure (Kubernetes Service, Container Registry, DNS Zones, Virtual Machines)

Other Skills:
Effective Communication, Team Collaboration, Leadership

Work Experience

Software Engineer – Wipro Limited, Bangalore, India | September 2020 – May 2023

Migration of GUI Mortgage Trading System to Azure Cloud
Technologies: C, Java, Bash, Perl, Azure VM

- Directed the migration of 130+ C binaries, 600+ shell scripts, and Java files for a GUI Mortgage Trading system from Solaris servers to Azure Red Hat Enterprise Linux, covering 1,800 jobs in development, QA, and production for UBS, Europe's 5th largest bank.
- Resolved 2,000+ migration issues by refactoring code to boost stability, performance, and reliability; automated deployments with GitLab CI/CD for consistent delivery.
- Trained three team members on project architecture, JIL, C, and shell scripting, embedding Agile practices to ensure timely completion of project milestones.

Frontend Development and Data Analytics Implementation
Technologies: ReactJS, HTML, CSS, JavaScript, Google Analytics, Google Tag Manager

- Designed an interactive shopping prototype featuring 30 products at Wipro Technologies using ReactJS, HTML, CSS, and JavaScript, delivering a seamless and user-friendly experience.
- Integrated Google Tag Manager into a Huawei website prototype with 50 tags, enabling accurate tracking of critical metrics such as page views, product engagement, and session spending.
- Configured data-tracking variables, tags, and triggers within Google Tag Manager, feeding data into three Google Analytics dashboards to provide actionable insights for optimizing the user experience.

Projects

[Additional Project Info and Demo](#)

Full-stack dining application on Kubernetes: Orchestrated the deployment of a Dockerized full-stack dining application using Spring Boot, AngularJS, and MySQL, ensuring environment consistency and high availability of 99.95% on Azure Kubernetes and Minikube.
Technologies: Spring Boot, AngularJS, MySQL, Docker, Kubernetes, Route 53, Minikube.

Movie booking system: engineered a feature-rich movie booking system supporting ticket management, showtimes, and order processing with an average response time of under 2 seconds.
Technologies: ReactJS, ExpressJS, PostgreSQL, Sequelize ORM, JWT authentication.

Deployed a full-stack Todo List web app on AWS EC2: Created a responsive ReactJS frontend and ExpressJS backend for a Todo List application, delivering a seamless user experience.
Technologies: ReactJS, ExpressJS, MongoDB, AWS EC2, AWS VPC, Route 53, NGINX, JWT authentication.

Convolutional Neural Network classifier implementation: Constructed a CNN classifier in PyTorch for CIFAR-10, achieving 80% test accuracy and 97% training accuracy over 10 epochs with mini-batch processing, batch normalization, and dropout.

Technologies: Python, PyTorch.

Deployed a portfolio website on Amazon CloudFront: Built a responsive portfolio website using ReactJS, attaining 100 in Lighthouse metrics for Performance, Accessibility, Best Practices, and 83 in SEO.
Technologies: ReactJS, cross-platform, AWS S3, AWS CloudFront.

Café management system: Developed a café management website and improved load time by 30% using 3NF for database optimization. Added features for order processing, inventory, and billing to enhance efficiency.
Technologies: Python, Django, PostgreSQL.

HTTPS download accelerator project: Coded an HTTPS download accelerator in C, optimizing retrieval using the HTTP/1.1 'Range' feature and implementing TLS with OpenSSL.
Technologies: C, OpenSSL, Makefile, multithreading.

Relational algebra operations implementation: Implemented essential relational algebra operations (Project, Select, Minus, Union, Join) in Java, enhancing database management and indexing, resulting in up to a 100-fold speed improvement for certain operations and even greater gains for others.
Technologies: Java, Linear Hashing, B+ Tree indexing.

Certifications

Azure Fundamentals (AZ-900) - Issued by Microsoft | December 19, 2022
React The Complete Guide - Issued by Udemy | November 5, 2024