GUTURU RAMA MOHAN VISHNU

Mississauga, ON – L5N 4N2 (Willing to relocate)

✉ grmvishnu123@gmail.com   in https://www.linkedin.com/in/grm-vishnu/   https://grmvishnu.com   📞+1 (902) 412-8921

Skills

Programming Skills :   Java, Python, SQL, JavaScript, TypeScript, VTScada
Frameworks :   Spring Boot, Flask, Redux
Databases :   MySQL, MongoDB, DynamoDB
Web Technologies :   React.js, Angular, Node.js, Express.js, HTML5, CSS3, Three.js
Cloud Technologies :   AWS (EC2, Lambda, VPC, S3, ELB, NACL, RDS, Cloud Formation, CloudWatch, SNS, SQS), GCP (Cloud Functions, Cloud Storage, Data Studio, Pub/Sub, Firestore), Azure, Firebase, Docker
Dev Practices :   SDLC, Agile, Scrum, Object Oriented Programming (OOP), Test Driven Development (TDD)
Other Tools :   Linux, GitHub, Bitbucket, JIRA, Heroku, JUnit, Mockito, Confluence, TrackStudio, CI/CD, Swagger, Kafka, Postman

Work Experience

Software Developer – *VTScada by Trihedral (Halifax, Canada)*   Oct 2023 – Dec 2024

- Designed and implemented **6 new features** for VTScada, the company's flagship product, using **VTScada Script**, **C++**, **JavaScript**, and **HTML5**. Resolved **20+ critical incidents** and handled **30+ support requests** via **TrackStudio**, ensuring high system reliability and enhanced functionality.
- Debugged, troubleshot, and rigorously **tested** all 6 new features and 50+ bug fixes, ensuring high-quality software delivery and adherence to industry standards. Authored **10+ detailed design documents** to support seamless implementation and alignment across cross-functional teams.
- Reviewed **10+ code changes** from team members, improving code quality, maintaining consistency, and upholding high software development standards. Optimized performance for existing modules by identifying and resolving bottlenecks, **improving system efficiency by 15%**.

Data Engineer / Angular Developer – *Nova Scotia Health Authority (Co-op, Halifax, Canada)*   Apr 2023 – Aug 2023

- Developed user interfaces for two healthcare applications - "Surgery Scheduling Tool" and "Emergency Department Wait Times" - using **Angular**, **HTML**, and **CSS**, optimizing workflows across panels.
- Enhanced the latter site's engagement, reaching **164,000** total views by Aug '23, with a daily average of **1,500** views. Ensured **HIPAA** compliance in design and development, reducing data breach risks by **35%**. Optimized data retrieval workflows, enhancing application security and performance.
- Designed **14 wireframes** and **10 interactive UI prototypes** using **Figma** and **MockFlow**, translating user requirements into functional designs that improved usability and navigation. Developed **4 comprehensive sitemaps** to ensure seamless data flow and intuitive layouts.

Junior Product Developer – *Toppr (Hyderabad, India)*   Feb 2020 – Jul 2021

- Planned and carried out **5 core features**, including automated attendance recognition, performance tracking, and profit/loss reporting, following **SDLC** methodologies in an **Agile** environment. Customized UI using **ReactJS**, reducing browser memory usage and improving **performance by up to 50%**.
- Optimized front-end performance by integrating **React functional components**, **React Hooks**, and **Redux**, achieving a **40% reduction in load times**. Engineered **RESTful APIs** with **NodeJS** to improve UI-to-**MongoDB** communication, increasing data **retrieval speed by 50%**.
- Implemented **CI/CD pipelines** using **GitHub** Actions, automating testing, builds, and deployments for faster, more reliable releases. Integrated **Jest** to maintain over **90% test coverage** and uphold high code quality. Streamlined team workflows using **Jira** & **Confluence** for efficient project management.

Education

Master of Applied Computer Science – *Dalhousie University (Halifax, Canada)*   Sep 2021 – Sep 2023
CGPA: 4.13 / 4.30

Bachelor of Technology – *B V Raju Institute of Technology (Medak, India)*   Aug 2016 – Jul 2020
CGPA: 9.12 / 10.00

Projects

My Portfolio Website *(React.js, Three.js, EmailJS, Tailwind CSS, AWS, CI/CD, GitHub Actions)*

- Developed an immersive digital portfolio using **React.js**, **Three.js**, and **React Three Fiber**, seamlessly integrating dynamic 3D sections. Designed a responsive, visually engaging UI with **Tailwind CSS**, enhanced by smooth cinematic animations via **Framer Motion**.
- Implemented a fully automated **CI/CD pipeline** with **GitHub Actions**, streamlining the build and deployment process to **AWS S3**. Leveraged **AWS CloudFront** for secure **HTTPS connections** and global content delivery, ensuring optimal performance and scalability across all devices.
- Integrated **EmailJS** for seamless email communication, enabling a fully functional contact form without requiring a backend server, ensuring efficient and user-friendly messaging.

E-commerce Clothing Website *(ReactJS, MongoDB, Express.js, NodeJS, Heroku)*

- Built a responsive, cross-device e-commerce platform using **ReactJS**, **HTML**, and **CSS**, adhering to Web Usability Principles such as User-Centric Design and Task Flow Optimization. Leveraged **Redux** for efficient state management and seamless user interactions.
- Engineered a secure backend using **MongoDB**, **Express.js**, and **NodeJS**, implementing Web Security Guidelines to ensure data protection. Followed **Agile** methodologies for continuous development and deployment (**CI/CD**), and deployed the system on **Heroku**.

Multi Cloud Serverless Hotel Management *(ReactJS, Python, NodeJS, AWS, GCP, Docker, Machine Learning)*

- Synthesized a multi-cloud, serverless application for hotel reservations and custom tour packages, leveraging AWS and GCP for high availability and scalability. Composed a **microservices**-based backend using **AWS Lambda**, **GCP Cloud Functions**, and containerized services with **Docker**.
- Used **AWS Cognito** for authentication and **GCP Firestore** for user data storage and validation, securing sensitive data with **Caesar Cipher** encryption. Integrated a chatbot using **AWS Lex** and a message-passing system with **GCP Pub/Sub**.

Certifications

- AWS Certified Cloud Practitioner (CLF - C02) 🔗
- Microsoft Certified Azure Fundamentals (AZ - 900) 🔗