

HARIKRISHNAN KARUPPIAH

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Education

Virtualization and Cloud Computing

Conestoga College

Jan 2024 – Aug 2024

Waterloo, Ontario

Computer Applications Development

Conestoga College

May 2023 – Dec 2023

Waterloo, Ontario

Bachelor of Engineering in Electrical and Electronics

Anna University

Aug 2010 – May 2014

Chennai, India

Experience

Government of Tamil Nadu - Administration of Justice Dept

System Administrator

Mar 2019 – Mar 2023

Namakkal, India

- Involved in implementation of IFHRMS application, an Oracle's E-Business Suite, a real-time financial transaction of government bills.
- Worked on Finance modules such as Budget, Payroll, Pension, Financial Data warehouse/BI and Human Resource modules like Personnel management, Post creation and Mapping.
- Monitored system performance and conducted regular updates and patches to ensure the security and efficiency of the IT infrastructure.

InstaSoft Technologies

Software Developer

Aug 2016 – Jan 2019

Chennai, India

- Developed and maintained ASP.NET MVC web applications, ensuring scalable and high-performance solutions that met business requirements.
- Built and optimized server-side logic, handling complex business processes and integrating with SQL Server databases.
- Implemented RESTful APIs to facilitate seamless communication between frontend and backend components.
- Conducted unit testing using NUnit to ensure code quality, reliability, and adherence to best practices, reducing bugs and enhancing maintainability.

Projects

Automated CI/CD Pipeline | AWS, Jenkins, Terraform, Docker, Argo CD

Capstone Project

- Developed and automated a CI/CD pipeline for SwiftSend, a 3-tier web application, using Jenkins and Argo CD, enhancing deployment efficiency and minimizing errors.
- Architected and deployed scalable AWS infrastructure with Terraform, integrating EC2, RDS, EKS, S3, and DynamoDB, and containerized the application with Docker for consistent deployment.
- Configured Jenkins for continuous integration and delivery, integrated SonarQube for continuous code quality analysis, and managed infrastructure configuration with Ansible.
- Implemented comprehensive monitoring with Prometheus and Grafana, ensuring observability & performance tracking.

Crime Beacon Application | NodeJS, EJS, MongoDB, CSS

Capstone Project

- Developed a NodeJS-based application for reporting incidents, utilizing EJS for dynamic content rendering and MongoDB for database management.
- Integrated location-based services to allow users to accurately pinpoint incident locations on the application.
- Enhanced the application's stability and reliability through robust error handling and logging mechanisms, while also customizing the interface with CSS to create an intuitive, user-friendly experience for easy incident reporting.

Wow Clothing Store Application | ReactJS, SCSS, JavaScript, Stripe

Client Project

- Developed a responsive e-commerce platform, integrating payment processing through Stripe for secure transactions.
- Collaborated with designers to implement CSS animations and transitions, improving UI/UX and site aesthetics.
- Implemented error handling mechanisms for better debugging and smoother operation of the application, ensuring a seamless shopping experience.

Technical Skills

Development & Programming:: ReactJS, Node.js, HTML, CSS, SCSS, Tailwind, SQL, MongoDB, JavaScript

DevOps & Automation: Terraform, Jenkins, Argo CD, Ansible, Docker, Kubernetes, Git, Prometheus, Grafana

Cloud & Infrastructure: AWS, Azure, Google Cloud Platform, VMware, vSphere