

Ram Villa

E: ramvilla2203@gmail.com | Ph: +16132631403 | LinkedIn: [Ram Villa](#) | L: Ottawa

Professional Summary:

Senior Full-Stack Developer with **5+ years** in secure, scalable web applications, specializing in **React, Node.js**, and **Java**. Skilled in **healthcare compliance (PHIPA/HIPAA)**, mentoring teams, and optimizing performance in **Agile** environments. Proven track record in delivering robust, user-centric solutions with strong collaboration across **product, QA**, and **DevOps** teams.

Education:

Master of Engineering - University of Ottawa, Canada Sep 2022 – Dec 2023
Relevant Coursework: Specialization in Data Engineering, Data Science and Full Stack Cloud Development.
GPA – 3.52/4

Bachelor of Technology- JNTU, Hyderabad, India Sep 2014 – May 2018
Relevant Coursework: Advanced Data Structures, Computer Networks, Web Technologies, Databases and Computer Architecture.
GPA – 3.00/4

Skills:

- **Frontend:** React.js, AngularJS, TypeScript, JavaScript, Redux, HTML5, CSS3, Next.js
- **Backend:** Node.js, Express.js, Java (Spring Boot), RESTful APIs, GraphQL, Python (Flask)
- **Cloud & DevOps:** AWS (Lambda, EC2, S3), Docker, Jenkins, CI/CD, Kubernetes
- **Testing:** Jest, Mocha, Cypress, Selenium
- **Database:** PostgreSQL, MySQL, MongoDB, SQL
- **System Administration:** Windows Server, Linux, Firewalls, IP networking
- **Object-Oriented Design:** OOD/OOP principles, Design Patterns
- **Tools:** Git, GitHub, JIRA, Confluence

Experience:

Software Engineer - University of Ottawa, Canada May 2023 – May 2024

- Developed a healthcare application with a focus on **privacy standards (PHIPA, HIPAA)** and secure data handling, ensuring patient data confidentiality.
- **Led code reviews** and established best practices for maintainable, compliant code, mentoring team members on secure coding techniques.
- Developed scalable UIs using **React Hooks** and **Redux**, achieving faster load times and enhancing user experience.
- Integrated **REST APIs** and streamlined data flow between front-end and back-end systems, improving data responsiveness by 20%.
- **Collaborated with stakeholders** including product managers and QA teams to prioritize features, resolve dependencies, and deliver projects aligned with business goals.
- Deployed applications using **AWS S3** and **CloudFront**, optimizing performance and ensuring secure, compliant data transmission.
- Created **CI/CD pipelines** with **Jenkins** and **GitHub Actions**, automating testing, deployment, and improving release cycles by 40%.
- **Skills:** React, Angular, Node.js, Python, AWS S3, GitHub Actions, CI/CD, REST APIs, CloudFront, Redux

Senior Full-Stack Developer - Ionixx Technologies

Dec 2021 – Aug 2022

- Designed a secure financial application using **React**, **Node.js**, and **AWS**, focusing on compliance with **financial data protection standards**.
- **Led a cross-functional team**, facilitating Agile sprint planning, code reviews, and technical discussions, improving release cadence and code quality.
- Implemented **microservices architecture** using **Docker** and **Kubernetes**, enhancing scalability and performance by 50%.
- Integrated **JWT and OAuth** for secure user authentication, safeguarding sensitive financial data in compliance with industry standards.
- Conducted A/B testing and optimized UI, achieving a 20% increase in user engagement.
- Collaborated with business analysts and stakeholders to gather requirements, influencing design decisions and delivering user-friendly interfaces.
- **Skills:** React, Node.js, Docker, Kubernetes, AWS Lambda, Jenkins, Microservices, JWT, OAuth

Junior Software Developer - Sims Healthcare Pvt Ltd

July 2018 – Dec 2021

- Developed a healthcare management system with **IoT integration** for patient monitoring using **React Native**, **Node.js**, and **PostgreSQL**.
- Ensured **PHIPA and HIPAA compliance** by implementing secure REST APIs and data encryption, protecting patient data integrity.
- Participated in **requirements gathering** with end users (doctors, healthcare providers), translating needs into technical solutions.
- Built real-time communication features using **WebSocket**, improving interaction between healthcare providers and patients.
- Deployed front-end components using **Docker containers**, ensuring consistent environments across development and production.
- **Skills:** React Native, Node.js, PostgreSQL, REST APIs, WebSocket, Docker, Usability Testing, PHIPA, HIPAA

Projects:

Cloud-Based Healthcare Management Platform

- **Skills:** React.js, Node.js, AWS, Docker, Kubernetes
- Designed a cloud-based platform compliant with **PHIPA and HIPAA** standards, enhancing patient data security and availability.
- Deployed on **AWS** with **Kubernetes** for reliable and secure scaling, achieving 99.9% availability.

E-commerce Analytics Dashboard

- **Skills:** React.js, D3.js, AWS, Flask
- Built an interactive data dashboard for visualizing key metrics, enhancing decision-making for stakeholders.
- Used **D3.js** for dynamic visualizations, increasing user engagement by 15%.

Automated Reports Pipeline

- **Skills:** AWS Lambda, S3, Redshift, DynamoDB
- Developed a pipeline to process and store business reports, reducing manual processing by 80% with **AWS Redshift** and **Lambda** automation.

Certifications:

- **AWS Certified Developer – Associate**
- **Agile Scrum Master – Coursera**
- **HackerRank Certified in JavaScript and Python**