

SRI LAKSHMI KAVYA PENUGONDA

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PROFESSIONAL SUMMARY

Full Stack Developer with hands-on experience in building responsive web applications, backend services, and cloud-deployed solutions. Proficient in React.js, Node.js, Express.js, Python, SQL, REST APIs, Redux, Firebase, Docker, and AWS, with demonstrated ability to integrate real-time data, API services, and interactive UI/UX. Strong foundation in database design, deployment pipelines, and agile collaboration, capable of delivering scalable and maintainable end-to-end solutions.

TECHNICAL SKILLS

Programming & Frameworks: JavaScript (ES6+), TypeScript, Python, Java, React.js, Next.js, Node.js, Express.js, HTML5, CSS3, Tailwind CSS, Bootstrap, REST APIs, GraphQL, PHP (Laravel, CodeIgniter).

Databases: MySQL, PostgreSQL, MongoDB, SQLite.

Cloud & DevOps: AWS (EC2, S3, Lambda, RDS), Docker, Kubernetes, GitHub Actions, Jenkins, CI/CD Pipelines.

Frontend Tools & UI/UX: Redux, Context API, Figma, Responsive Web Design, Cross-Browser Compatibility, Accessibility (WCAG).

Testing & Quality Assurance: Jest, React Testing Library, Cypress, Postman.

Version Control & Collaboration: Git, GitHub, Agile/Scrum, Jira.

PROFESSIONAL EXPERIENCE

Full Stack Developer Intern

Jan 2023 - May 2023

Corizo Edutech | Bangalore, IN

- Built a Flask-based REST API that connected ML models with a JavaScript frontend, allowing researchers to upload heart sound files and receive instant classification results.
- Increased detection accuracy by 15% through implementing feature extraction and noise reduction pipelines in Python with NumPy and Pandas.
- Designed a SQLite database schema to store user inputs and processed outputs, improving query performance and cutting retrieval time by 20%.
- Delivered interactive dashboards using Matplotlib and JavaScript charts, making model performance insights 30% more interpretable for stakeholders.
- Enhanced usability with a responsive UI built in HTML5, CSS3, and Bootstrap, which boosted adoption during prototype testing by 25%.
- Strengthened collaboration by contributing to Agile sprints, GitHub versioning, and code reviews, helping the team reduce release cycles by 10%.

PROJECTS

Smart E-Commerce Platform with Analytics

- Developed a scalable e-commerce platform using PHP (Laravel), React.js, and MySQL, managing products, user accounts, orders, and inventory efficiently.
- Integrated REST APIs, Stripe/PayPal payments, and real-time order tracking, increasing transaction reliability and improving user engagement by 35%.
- Developed admin dashboards with Chart.js and Power BI, providing sales insights and cutting decision-making time by 40%.

Real-Time Collaborative Chat & Notification System

- Engineered a messaging app with PHP (Laravel), Node.js, WebSockets, Firebase, and MongoDB, enabling instant chat, file sharing, and multi-user collaboration.
- Optimized performance using Redis caching, improving message delivery speed by 50% and reducing server load by 25%.
- Implemented push notifications and email alerts, increasing user engagement by 20% and ensuring timely updates across devices.

Personal Finance Management App

- Created a cross-platform finance app using PHP, React Native, Firebase Authentication, and MySQL, allowing users to track incomes, expenses, and budgets.
- Integrated REST APIs for currency conversion and notifications, improving data accuracy and usability by 30%.
- Implemented data encryption and secure login mechanisms, ensuring user data protection and compliance with security best practices.

EDUCATION

Masters in Computer Information Systems

Jan 2024-Dec 2025

New England College | NH, USA

Bachelor of Computer Science

Jun 2019-May 2023

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology | Chennai, India

CERTIFICATIONS

- AWS Cloud Foundations - **AWS Academy**
- AWS Machine Learning - **AWS Academy**
- CCNAV7: Introduction to Networks - **Cisco Networking Academy**
- Meta Front-End Developer Professional Certificate - **Coursera**
- HTML, CSS, and JavaScript for Web Developers - **Coursera**