LAKSHMI PRASANTHI PADI

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Technical Skills

Programming Languages: C,C++, Java, Python, .NET, JavaScript, SQL, MySQL

Frontend-Technologies: HTML5, CSS3, React, Angular,Vue TypeScript, Next.js, JavaScript, jQuery, Bootstrap,Figma ,WordPress

Backend API: Node.js, Express.js,Django, REST APIs, MySQL, PostgreSQL, NoSQL, MongoDB, Spring Boot, Apache.

DevOps: Docker,Confluence, Kubernetes, GitHub,Bitbucket, AWS, Azure Nginx, PM2

Operating Systems: Windows, Linux, Ubuntu

Others: Microsoft Word, Excel, PowerPoint

Soft Skills: Quick Learning, Detailed-Oriented, Adaptability, Flexible, Cross-Functional Collaboration.

Work Experience History

Student Assistant | Texas Tech University - Full Stack Web Development Aug 2023- May 2025

- Developed production-grade applications using React, Node.js, and MySQL within the Instabase platform.
- Managed end-to-end frontend architecture and design to ensure seamless, accessible UX.
- Collaborated with Engineering, PMs, and CEMs to drive new features and improvements.
- Utilized GitHub Actions for CI/CD and deployed apps using Kubernetes and AWS Cloud infrastructure.
- Handled incidents and postmortems, and actively contributed to process improvements.

Freelance - Frontend Development Aug 2022- Aug 2023

- Delivered accessible, mobile-first websites using modern frontend stacks including TypeScript and Webpack.
- Implemented dynamic features with REST API integrations and React component libraries.
- Incorporated user feedback rapidly to iterate on UI/UX, ensuring high customer satisfaction.

Internship Trainee | iB Hubs- CCBP 4.0 - Full Stack Development Mar 2021-Aug 2022

- Built responsive websites and customized WordPress themes with a focus on performance and accessibility.
- Explored open-source tools like spaCy, pandas, and sklearn to demonstrate compatibility with enterprise systems like Instabase.
- Improved team code quality and standards by advocating best practices and reusable components.

Projects

Student Portfolio Website Mar 2025

- Developed a fully responsive and SEO-optimized personal portfolio using HTML5, CSS3, JavaScript, and Bootstrap v5 to highlight academic and professional experience.
- Integrated a Node.js and Express.js backend to handle contact form submissions with data stored securely in MongoDB.
- Employed Google Cloud for hosting and configured DNS records for domain mapping.
- Enabled Google Analytics and GTM (Google Tag Manager) to track user interactions.
- Used GitHub for version control and deployed via GitHub Pages and Google Cloud functions.

Responsive Food Order Website Dec 2024

- Designed a visually appealing and mobile-first food delivery website with focus on UX/UI, menu categorization, and promotional sections.
- Implemented the frontend using HTML5, CSS3, Bootstrap v4/v5, and JavaScript, ensuring cross-browser

compatibility.

- Integrated third-party RESTful APIs for payment gateway simulation and social media embedding.
- Employed Google Lighthouse to enhance performance and SEO, achieving a 95+ performance score.
- Optimized load times using responsive images, minified scripts, and lazy loading techniques.

Improving Model Robustness Against Backdoor Attacks with Noise-Based Defenses Sep 2024

- Built deep learning pipelines using TensorFlow and Python to simulate and defend against backdoor attacks on the CIFAR-100 dataset.
- Architected and trained multiple neural networks including ResNet18, VGG16, and MobileNetV2.
- Designed noise-based defense mechanisms to reduce attack impact, improving classification accuracy and robustness.
- Performed analytics using Python visualization tools to evaluate model performance and resilience.

OnDemand Q&A Bot Nov 2023

- Created a Python-based local chatbot focused on network security curriculum, ensuring data privacy by avoiding cloud dependence.
- Used Natural Language Processing (NLP) to process and return accurate answers from a local corpus of course materials.
- Designed as a desktop application with CLI and web interface options.
- Packaged as an open-source tool with full documentation, enabling reusability across academic institutions.

Education

Texas Tech University, Masters in Computer Science Aug 2023 – May 2025

- GPA: 3.58/4.0
- **Coursework:** Analysis of Algorithms,Computer Architecture, Adversarial Machine Learning, Neural Networks,Network Security, Theory of Automata, Software Modeling and Architecture.