Sravya Vaddi

Software Development Engineer

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Experience

Singular Analysts Inc, USA | Software Developer

Sep 2024 – Present

- Crafted RESTful APIs with Swagger documentation to enable efficient communication between front-end and back-end components, ensuring reliable
 data exchange, faster response times, and enhanced application performance.
- Utilized ReactJS and JavaScript frameworks for front-end UI/UX functionalities, enhancing user experience and engagement while adhering to Web Content Accessibility Guidelines (WCAG).
- Implemented ORM techniques with SQLAlchemy and PostgreSQL to manage database schemas, ensuring efficient handling of relational data and improving query performance.
- Automated Spring Boot deployments with Jenkins and Docker, cutting deployment time by 50% and standardizing environments, contributing to a robust CI/CD Pipelines.
- Engaged in cross-functional collaboration with UX designers, product managers, and QA teams to streamline development, ensuring delivery of user-centric web applications through agile iterations and continuous feedback integration.

Cognizant Technology Solutions, India | Software Engineer

Oct 2020 - Oct 2021

- Implemented API Gateway caching techniques and optimized database design to reduce query response times from 4-6 seconds to under 200 milliseconds, significantly enhancing application performance and demonstrating strong analytical skills.
- Reduced operational costs by 20% through streamlined data management and automated deployments using API Gateway, Lambda functions, and CloudWatch, showcasing expertise in cloud platforms and cost savings initiatives.
- Led backend development with AWS Lambda and PostgreSQL (RDS), implementing reusable Python frameworks to improve system performance and reduce future development time.
- Utilized Docker and **Kubernetes** for streamlined containerization and orchestration of microservices, implementing **DevOps** practices for seamless integration, resulting in a 20% increase in performance and enhanced scalability of software solutions.
- Created comprehensive API documentation with Swagger, expediting internal team onboarding and external integration readiness.
- Developed a robust backend using **Express.js**, integrating **WebRTC** and **Peer.js** for secure peer-to-peer video communication, which significantly reduced server response time and minimized connection drops.
- Engineered secure authentication flows with AWS Cognito and Two-Factor Authentication, enhancing production reliability through TDD practices and ensuring robust compliance with security standards.
- Deployed STUN and TURN servers, increasing connection stability by 70% and enhancing overall video communication quality.
- Built ReactJS forms with TypeScript and DynamoDB, cutting developer effort from 4 hours to 1 minute and saving \$200K annually, demonstrating strong product ownership and passion for technology.

AccrueSoft Services Pvt Ltd, India | Web Developer

Apr 2020 - Sep 2020

- Utilized TypeScript, Python, Flask, and Express.js for server-side development, enhancing app security through unit testing with Mocha and Chai, and
 participating in bug fixing while adhering to coding standards.
- Utilized Angular for code optimization and implemented Agile methodologies, resulting in increase in users and reducing customer complaints through extensive testing with Jest and Enzyme.
- Enhanced responsiveness with React and Bootstrap, saving over 7 hours of development time daily and improving overall software architecture.
- Revamped service availability through Zero Downtime Upgrade, leveraging Kubernetes and Cloud volumes to separate property data from Docker images, reducing maintenance downtime by 80%.

Internship

MTX Group Inc, USA | Salesforce Developer

May 2023 – Aug 2023

- Streamlined business operations by designing and implementing custom workflows, approval processes, and validation rules, ensuring data accuracy and user efficiency.
- Enhanced user experience by developing Lightning Web Components integrated with Apex controllers, enabling seamless data manipulation and real-time API communication.
- Delivered actionable insights through custom reports and dashboards, providing stakeholders with key metrics to drive informed decision-making.

Academic Project

University at Albany, USA | Developer

Aug 2024 – Dec 2024

- Developed a human-robot interaction framework integrating TextRank for keyword extraction and A* for optimal pathfinding in grid environments.
- Implemented natural language processing workflows using **NLTK** for tokenization, lemmatization, and part-of-speech tagging to identify actionable keywords.
- Integrated Convolutional Neural Networks (CNNs) for real-time object detection and dynamic environment mapping, utilizing TensorFlow and OpenCV for seamless visual input processing.
- Utilized libraries like Matplotlib for grid visualization and NumPy for spatial calculations to ensure accurate and efficient navigation.
- Designed a multimodal system combining NLP and visual data to enhance contextual understanding and improve robot task execution in complex scenarios.

Skills

Methodologies: Agile, SDLC, Waterfall

Programming Languages: Python, C, Java, SQL, JavaScript(ES5/ES6)

Web Development: HTML5, CSS3, React.js, Express.js, Node.js, Restful APIs, jQuery, Bootstrap

Frameworks and Libraries: Spring Boot, Django, SciPy, TensorFlow, Keras, PyTorch, Numpy, Pandas, React Hooks, EJS

Build Tools, Platforms & Databases: Amazon Web Services(EC2, S3, RDS, Lambda, Cloud Watch), Swagger, Docker, Git, GitHub, pgAdmin, Figma, Jenkins, CI/CD Pipelines, Microservices, PostgreSQL, MongoDB, SQLAlchemy, Visual Studio Code, Jira

Certifications: AWS Certified Cloud Practitioner, Salesforce Certified Platform Developer I

Relevant Skills: Operating Systems, Data Structures & Algorithms, Object Oriented Programming, Networking Fundamentals, Linux, Relational Databases, Mac, Windows, resource management, file systems, design patterns, asymptotic complexity, parallelism, and database schema design, Machine Learning Web Development, Micro-Services Architecture, TCP/UDP, IP

Education