Varshith Kola

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Education

University of Central Florida - *Master's in Computer Science (4.0/4.0)*   *May 2025*

Skills

- Programming Languages   : Java, Python, JavaScript (ES5/ES6), HTML5 & CSS3, TypeScript, Kotlin, Shell Scripting
- Frameworks & Libraries   : Angular, React.js, Spring Boot, Node.js, Express.js, Next.js, Tailwind CSS
- Cloud & DevOps   : AWS, GCP, Azure, Power Automation, Power Query, Ansible, Chef
- Databases   : MySQL, MongoDB, PostgreSQL, Cassandra Firebase, Relational Databases
- Software Development   : REST APIs, OOP, Data Structures, Microservices, Unit Testing, Troubleshooting
- Tools   : Power BI, Postman, Linux, Git, GitHub Actions, GitLab, Version Control Systems
- Automation & CI/CD   : Docker, Kubernetes, Chef, Octopus Deploy, Jenkins, Jira
- Test Automation & Quality   : Selenium, Maven, TestNG, JMeter, SpecFlow, SonarQube, Checkmarx
- Additional Skills   : Agile, SCRUM, Performance Optimization, Debugging, Serverless, AI/ML concepts

Experiences

Software Engineer at *FedEx (Orlando, United States)*   *Aug 2024 - Present*
- Constructed GCP queries to extract Azure data, automating workflows and increasing data retrieval efficiency by 30%
- Crafted Python scripts for data cleaning and transformation, bolstering reporting precision and speeding up analysis by 15%
- Devised SQL datasets, supporting decision-making processes, elevating business functionality and data accessibility by 20%
- Integrated Power BI dashboards for flow plan compliance, enabling real-time tracking of essential KPIs and metrics
- Refined cloud integration workflows, decreasing manual work, lessening errors, and streamlining overall efficiency by 30%

Web Developer at *University of Central Florida (Orlando, United States)*   *Aug 2023 – August 2024*
- Revamped UCF-India Centre website with JavaScript, Next.js, enhancing accessibility, user engagement, and usability by 50%
- Engineered backend services using Express.js, amplifying database efficiency and sharpening processing speed by 40%
- Collaborated with stakeholders to construct responsive UI frameworks, raising cross-device user interaction and engagement
- Applied microservices architecture, maximizing modularity and scalability, lowering error rates, and refining system workflows

Software Development Engineer at *Zasket (Remote, India)*   *Mar 2021 – July 2023*
- Devised delivery management software using Java, improving scalability, boosting performance, and cutting load times by 40%
- Created RESTful APIs and microservices with Node.js, increasing data flow and inter-department communication by 50%
- Streamlined CI/CD pipelines using azure infrastructure, amplifying deployment timelines and ensuring code quality for all releases
- Built full-stack solutions using React.js, augmenting consistency across the user interface and reducing errors by 30%
- Introduced serverless functions in AWS, cutting costs and refining performance for non-essential processes within cloud platforms

AWS Cloud Engineer at *AICTE (Hyderabad, India)*   *Oct 2021 - Jan 2022*
- Architected cloud architecture utilizing AWS services like EC2, S3, and Lambda, streamlining system resilience and scalability
- Developed deployment pipelines with Jenkins and Docker, lowering deployment times, and minimizing manual oversight by 45%
- Administered AWS services, maintaining secure, scalable, and efficient cloud infrastructures for large-scale data operations
- Implemented fault-tolerant architectures, ensuring system uptime and minimizing downtime through load balancers and auto-scaling
- Scaled down cloud infrastructure expenditure by 20% through strategic implementation of cost-saving measures across services

Projects

- **Customer Testimonial Collection and Display Platform (Feedback)**: Developed an app using React.js, Node.js, and MongoDB to collect, manage, and display customer testimonials, advancing online credibility and trust. Integrated embeddable testimonials with customizable layouts and analytics tools to monitor and optimize performance metrics
- **Comprehensive Monitoring and Incident Management Platform (Web Tracking)**: Built a full-stack monitoring platform using Next.js, Node.js, Express.js, and PostgreSQL to track uptime, performance, and incidents. Implemented real-time alerting and incident management with WebSocket and Slack notifications. Designed customizable status pages and dashboards with D3.js
- **Secure Data Sharing in Cloud Computing Using Revocable Storage Identity Based Encryption**: Created a highly secure data-sharing system using Java, JavaScript, and MySQL to significantly enhance data protection in sensitive cloud environments. Integrated advanced Revocable Storage Identity-Based Encryption (RS-IBE), diminishing unauthorized access by 50%. Designed the system with intuitive, secure interfaces using HTML, CSS, and JSP to ensure seamless and user-friendly interactions

Certificates

- AWS Certified Developer – Associate (DVA-C02)
- AWS Certified Solutions Architect – Associate (SAA-C03)
- AWS Certified Sysops Administrator – Associate (SOA-C02)
- IBM Full Stack Software Developer
- Google Associate Cloud Engineer
- Programming, Data Structures and Algorithms Using Python