Pavan Kalyan Nakka

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Education

Arizona State University	**May 2024**
Master of Science in Computer Engineering, GPA: 3.90	*Tempe, Arizona*
Vellore Institute of Technology	**May 2022**
Bachelor of Technology in Electronics and Communication Engineering	*Vellore, India*

Experience

SBCS India Pvt Ltd — **Aug 2021 - May 2022**
Software Engineer — *Bangalore, India*

- Developed and maintained responsive web applications using React, JavaScript and CSS resulting in a 20% improvement in page load times and a 15% increase in overall user engagement metrics.
- Established a comprehensive CI/CD pipeline using Jenkins and GitHub Actions that automated over **600** build and deployment processes, improved overall development speed by 30% and minimized human error in deployments.
- Initiated a migration to AWS services (S3, EC2, Lambda, and CloudFront), using CloudFront for faster content delivery and Lambda for automated processing tasks, six different teams are utilizing this implementation.
- Collaborated closely with the Operations team to streamline the Docker image build process, achieving a **30%** decrease in build times and enabling faster rollouts of new features to end-users.
- Integrated Python scripting into existing systems to automate quality assurance checks, increasing testing speeds by 60% and reduction in manual testing hours by 40%, allowing teams to allocate resources to strategic testing efforts.
- Implemented a structured code review process, analyzing and refining over 300 lines of code weekly, engaging with 10+ developers to provide targeted feedback which directly contributed to a **20%** reduction in code defects.

SBCS India Pvt Ltd — **May 2021 - Jul 2021**
Software Engineer Intern — *Bangalore, India*

- Adapted a streamlined task assignment process using Git, this initiative reduced task turnaround time by 25% and noticeably better overall project delivery speed.
- Designed an intuitive front-end framework using React for efficient task assignment and progress monitoring, now utilized by **20+** employees, resulting in simplified collaboration and communication within the team.
- Launched a Python tool for the Customer Support team that visualized complex datasets, the tool integrates with existing systems, allowing for real-time data updates and providing informed decisions for over **20** initiatives.
- Compiled and presented an exhaustive analysis of 20 software technologies, providing insights that reshaped the tech.

Technical Skills

Programming languages: Python, C++, Java, SQL
Web technologies: HTML, CSS, JavaScript
Frameworks/Libraries: React JS, JSON, Django, jQuery, Bootstrap, Tailwind CSS, NumPy
Databases: MySQL, DynamoDB, Aurora, PostgreSQL
Cloud technologies: AWS (EC2, ELB, Elastic Beanstalk, RDS, S3, EFS, EBS, CloudWatch, ElasticCache, Aurora, ECS, ECR, DynamoDB, Route 53, VPC)
Tools: Git, GitHub, VS Code, Jenkins, Docker, Linux, Oracle VM

Projects

Online Chat App | *MongoDB, Express.js, React.js, Node.js*

- Coded an online chat solution with the MERN stack, incorporating advanced features such as emoji support, this led to positive user feedback from 90% of surveyed participants.
- Constructed a scalable backend architecture utilizing Node.js and Express.js to optimize data flow between MongoDB and the React application, achieved a reduction in server response time by nearly **50%**, enhancing user experience.

E-commerce Shopping Website | *React.js, Tailwind CSS*

- Built a responsive E-commerce platform with React JS and Tailwind CSS, which included user account capabilities, product detail views, and collection pages. This platform increased user retention and overall usability.
- Developed an admin dashboard for product management, allowing admins to add, list, update, and delete products, reducing manual management time and increasing inventory accuracy by **30%**.

Certification

AWS Certified Solutions Architect - Associate	**Jun 2024**
Expiration: Jun 2027	