

Pavan Kalyan Nakka

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Education

Arizona State University

Master of Science in Computer Engineering, GPA: 3.90

May 2024

Tempe, Arizona

Relevant Coursework: Algorithms, Advanced Network Security, Software Security

Human-computer Interaction, Applied Cryptography

Vellore Institute of Technology

Bachelor of Technology in Electronics and Communication Engineering

May 2022

Vellore, India

Experience

SBCS India Pvt. Ltd.

Aug 2021 - May 2022

Software Engineer

Bangalore, India

- Designed and maintained responsive web applications using React, jQuery and Bootstrap resulting in a **20%** improvement in page load times and a **15%** increase in user engagement.
- Integrated CI/CD tools (such as Jenkins, GitHub Actions) to automate build, test, and deployment pipelines, decreasing deployment time by **40%**.
- Leveraged AWS services (such as S3, EC2, Lambda, and CloudFront) to host and scale web applications, reducing latency by **20%**.
- Collaborated closely with the Ops 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.
- Incorporated Python for scripting and automation tasks, reducing manual processes by 50% and improving development speed.
- Facilitated in code reviews, providing feedback that resulted in a **15%** reduction in code defects.

SBCS India Pvt. Ltd.

May 2021 - Jul 2021

Software Engineer Intern

Bangalore, India

- Implemented a streamlined task assignment process using Git, this initiative reduced task turnaround time by **25%** and improved overall project delivery speed.
- Developed a front-end system using **React** to streamline task assignment, progress tracking, and reporting, leading to a **15%** increase in task management efficiency.
- Launched a Python tool for the Customer Support team that visualized complex datasets, reports generated from the tool now inform decisions for over **20** initiatives monthly.
- Compiled and presented a comprehensive analysis of 20 new software technologies.

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

- Designed 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 **50%**, enhancing user experience.

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

- Built a responsive E-commerce website using React JS and Tailwind CSS, featuring a Home page, product collection page, product detail pages, and user account pages.
- Developed an admin dashboard for product management, allowing admins to add, list, update, and delete products, reducing manual management time by **50%** and increasing inventory accuracy by **30%**.

Certification

AWS Certified Solutions Architect - Associate

Jun 2024

Expiration: Jun 2027