Shreyas Shivakumar Kasetty

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Education

Texas A&M University, College Station, TX
Master of Computer Science, GPA: 4.0/4.0 *Dec 2024*
R.V. College of Engineering, Bengaluru, India
Bachelor of Science in Computer Science, GPA: 4.0/4.0 *Aug 2017 – Aug 2021*

Work Experience

Cisco Systems, Bengaluru, India
Software Engineer *Feb 2021 – July 2023*
Network Component Analyser Tool

- **Tech**: React.js, Next.js, SQL, Django, Git, Postman, REST API, Redux
- Designed and developed a real-time information retrieval system for optical network devices, leading to a **2x improvement in User Query Throughput Rate and a 50% increase in debugging efficiency**
- Enhanced system service time by **95%, reducing from an average of 1 minute to 1 second**
- Spearheaded project from ideation to deployment and attracted **2 critical customers**

Cisco Optical Network Planner (CONP) for NCS1010

- **Tech**: React.js, Java, Spring Boot, MongoDb, Nginx, Git
- Identified and resolved critical bottlenecks in network design process, resulting in a **40% reduction** in design errors
- Optimized data storage and retrieval processes with MongoDB, accomplishing a **15% increase** in database performance
- Modernized legacy code, achieving a **30% faster server response time**, **50% reduction in cyclomatic complexity**, increasing scalability and maintainability
- Collaborated with a team of 10 engineers to integrate Microservices architecture, augmenting system scalability and maintainability
- Conducted over 20 stakeholder meetings to gather actionable feedback, positively impacting the development of user-centric solutions

Test Automation Framework for firmware Integration

- **Tech**: Python, Bash, Jenkins, Git
- Developed a Python automation framework, **reducing optical device firmware integration time by 70%** and automating 10,000+ test cases, eliminating manual testing
- Initiated and mediated a cross-departmental process optimization, resulting in a 20% reduction in firmware delivery times
- **Cut NCS1010 Image deployment time by 60%** in each development-test cycle through process optimization

Other Involvements

- Authored and **maintained 50+ pages of technical documentation** for the NCS1010 project, leading to a **40% reduction in onboarding time** for new team members and a notable decrease in knowledge-related queries
- Guided and mentored new employees, accelerating team productivity by 50% within first month

Skills & Projects

Languages: Python, Java, C, Javascript, Ruby

Technical Skills: Node.js,AWS S3 Bucket, Ruby on Rails, React.js, Next.js, Django, Postman, REST API, Jenkins, SQL, Linux, Shell Script, Spring Boot, Pytorch, Transformers, NLP, Docker

PhD Application Review System

- Engineered a comprehensive PhD Application Review System for the TAMU CSE Department, leveraging Ruby on Rails, **resulting in a 70% increase in review process efficiency and handling over 1000-2000** applications annually.
- Proactively identified and integrated a cloud-based data storage solution using AWS, amplifying data accessibility and redundancy for critical departmental information, supporting over 5000 application records

Sentiment Analysis using Transformers

- **Tech**: Pytorch, Transformers, Python, Flask, AWS, EC2, Google Colab, Docker
- Pre-processed, sanitized, trained and evaluated a **RoBERTa-GRU hybrid model to discern positive, neutral or negative sentiment** of Yelp restaurant reviews, **attaining a F1 score of 0.885 and an accuracy of 89%**

Awards

Cisco Q1FY23 Quarterly Quality Award: for elevating quality metrics of the NCS1010 project

MIG Cisco Hackathon: Received Top 10 rank in the Cisco MIG Hackathon among 200+ submissions