

Shreyas Shivakumar Kasetty

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EDUCATION

Texas A&M University, College Station, TX

Master of Computer Science, GPA: 4.0/4.0

May 2025

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, Full-Stack

Feb 2021 – July 2023

Network Component Analyser Tool - NCS1010 Product

- **Tech:** React, React Redux, Tailwind CSS, Next.js, PostgreSQL, Django, RESTful APIs, Git, Postman
- Built an **interactive full-stack system for real-time data stream monitoring** and manipulation of optical network components for enhanced visualization and seamless testing
- Integrated services to allow team engineers to understand, analyze and validate optical system circuits quickly
- Created REST API endpoints using Django backend framework to fetch and store real-time data streams from optical devices **cutting down manual data collection time by 90%**
- **Increased team productivity of 20+ development and test engineers**

Test Automation Framework for firmware Regression Test

- **Tech:** Python, Bash, Jenkins, Git
- Analyzed firmware integration workflows and **automated regression testing process** using Python
- Redesigned base automation script, **enhancing modularity and maintainability** through Object Oriented Programming, which improved code scalability and efficiency
- **Automated 10,000+ test cases**, eliminating manual testing efforts and reducing test cycle time by 50%
- Identified 20+ critical issues in firmware
- Initiated and mediated a cross-team process optimization, resulting in a **20% reduction in firmware delivery times**
- **Cut NCS1010 image deployment time by 60%** in each development-test cycle

Other Involvements

- Authored and **maintained 50+ pages of technical documentation** for the NCS1010 project
- Guided and mentored new employees, disseminating domain knowledge

SKILLS

Languages: Python, Java, C, C++, Javascript, Ruby

Technical Skills: Scrum/Agile, Node.js, AWS S3/EC2/Cloud Watch, Ruby on Rails, React, Next.js, Django, Postman, REST API, Jenkins, Jira, SQL, Linux, Shell Script, Spring Boot, Pytorch, Transformers, NLP, Docker, Unix, Visual Studio

ACADEMIC PROJECTS

TAMU Hack 2024 - SmartFly

- **Tech:** React, Django, PostgreSQL
- Developed a dynamic flight journey assistant, providing a real-time timeline for travelers from departure to gate arrival, including personalized activity suggestions like dining options, ensuring timely airport navigation without missing flights
- Implemented search and recommendation system within SmartFly to suggest airport stores based on several features like time availability, location, past purchases and preferences

PhD Application Review System

- **Tech:** HTML, Bootstrap CSS, Ruby on Rails, Docker, Heroku, AWS S3, JWT, Figma
- Developed a PhD application review system featuring personalized dashboards for various user levels, boosting the review process efficiency of 2000+ applications by 50%

Yelp Restaurant Reviews - Sentiment Analysis using Transformers

- **Tech:** Pytorch, Transformers, Python, Flask, 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 AND PAPERS

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

Automated Regression Testing on Network Embedded Systems: Kasetty, S.S., T, P. (2021). International Journal of Scientific Research and Engineering Development, 4(3), 1167-1169. Available at: www.ijssred.com. ISSN: 2581-7175