ULLAS BASAVAPATNA CHANDRASHEKAR

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# EDUCATION

Master of Science in Computer Science, **George Washington University May** **2026**

Bachelor of Engineering in Electronics and Communication Engineering, **Visvesvaraya Technological University**  **July** **2022**

# EXPERIENCE

**System-Test Engineer | Infosys Ltd | Bengaluru, India August 2022 - June 2024**

* Devised a proof of concept for performance testing of OTT applications, including custom automation scripts revised application stability by 30% and reduced downtime by 25%, increasing user experience across a platform with over 10 million users in European countries
* Led a 6-member team to engineer Groovy scripts for server endpoint performance testing, increasing test coverage by 15%. Developed dynamic test cases for mobile apps in emulated environments, reduced latency by approximately 100 milliseconds and boosted system reliability by handling 30,000 more requests per minute
* Performed endpoint validation and traffic profiling for new releases, ensuring seamless integration of updated endpoints into automated test scripts. Refined regression testing accuracy by identifying 12 critical issues pre-launch, reducing defect leakage across multiple devices and software versions
* Provided recommendations for boosted system efficiency, leading to faster processing times and a reduction in critical disruptions by 3 significant incidents per quarter

**Software Intern | Transo | Bengaluru, India August 2021 - October 2021**

* Formulated an advanced dashboard analytics platform for a logistics company, utilizing real-time API data integration to monitor over 5,000 shipments daily. Solution offered detailed insights into critical metrics, including delivery status, driver efficiency scores, route optimization success, inventory trends, and delays. The implementation of dynamic visualizations enabled consignors to diminish shipment delays, cutting down transit times by 18%
* Spearheaded research and development on carbon footprint reduction, delivering recommendations to cut emissions equivalent to 50 mid-sized delivery trucks annually. Developed a machine learning model analyzing factors vehicle age and engine efficiency, with an emissions prediction accuracy of 0.87 out of 1. Model informed decisions on fleet upgrades and sustainable fuel use, lowering CO2 emissions by over 200 metric tons per year

# TECHNICAL SKILLS

* Programming Languages C, Java, C++, C#, Python, SQL, PostgreSQL, Node.js
* Frontend and Design HTML, CSS, JavaScript, ReactJS
* Version Control Git, GitHub, Bitbucket
* Testing & QA JMeter, LoadRunner, Postman, Charles, Selenium, Unit, Functional testing
* Other Skills Embedded systems, Operating systems, IoT, Robot Framework, AWS

# PROJECTS

**Symptom Solve – Large Language Model, Natural Language Processing August 2024 - Present**

* Developing an AI-driven system analyzes patient data to provide diagnostic suggestions, aimed at minimizing documentation time and boosting assessment accuracy by 10 – 15%
* Aiming to revamp patient care by alleviating clinician workload and increasing patient interaction

**Hybrid Image Fusion – Computer Vision, OpenCV, Fusion Techniques, Image Processing December 2023 – May 2024**

* Engineered a high-resolution image fusion system, expanding spatial, spectral, and radiometric precision by 75%
* Modified fusion techniques for earth observation, increasing image resolution and accuracy by 45% with Python-based data analysis. The project is refining methods to enhance precision and expand sensor range

**Advanced Web Solutions - Frontend, Backend, Web3, Crypto Token, Blockchain March 2022 - Present**

* Created a productivity application with integrated database functionality on the Heroku server, capable of managing up to 2,000 tasks per user. The app was modified for small-scale project management and individual task tracking
* Developing decentralized finance (DeFi) applications, including minting and creating a functional NFT marketplace, leveraging blockchain technology to enable secure and transparent transactions

**Design of Animal Intrusion Detection and Rescue System – CNN, Embedded Systems November 2021 - June 2022**

* Engineered an Animal Intrusion Detection System by integrating the YOLO Once algorithm with a Convolutional Neural Network, achieving a detection range of up to 250 meters with 84% accuracy
* Honed model using custom datasets of over 5,000 images, strengthening wild animal detection by 20%. Leveraged Raspberry Pi to minimize video feed latency to under 2 seconds, overhauling real-time monitoring efficiency