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

Infosys Ltd – *Systems Engineer* *Bengaluru, India* | Aug 2022 - Jun 2024

- Designed and deployed scalable **Java-based microservices** for region-specific rollout across 6 European markets (Liberty Global); **accelerated feature delivery by 2 weeks/release**
- Developed **RESTful backend tools** and data validation scripts to **streamline QA for ~30K** simulated users per test bed, reducing manual test effort by over **60 hours per sprint**
- Refactored configuration and orchestration scripts across **22+ services**; improved deployment consistency, minimizing production errors in **high-traffic environments (~1.2M weekly users)**
- Worked in Linux-based environments, managing **shell scripts** and release jobs via **CI/CD pipelines**
- Collaborated with cross-functional teams on **system design** and automation, contributing to **scalable backend** architecture and developer productivity tools

Transo – *Software Intern* *Bengaluru, India* | Aug 2021 - Oct 2021

- Built a real-time **dashboard** for logistics tracking **5,000+ shipments/day using JavaScript, REST APIs**, and modern UI frameworks
- Developed a **predictive ML model** (accuracy: 87%) for fleet efficiency analysis, helping reduce annual **CO_2 output by 200+ metric tons**

TECHNICAL SKILLS

- Programming Languages: Java, Python, C++, C, Ruby
- Frontend Development: NextJS, ReactJS, HTML, CSS, Angular
- Backend & Databases: SpringBoot, PostgreSQL, MySQL, Rails, MongoDB, NodeJS
- Cloud & DevOps: AWS, GitHub, Bitbucket, Linux, Bash
- Other: Data Structures & Algorithms, Object-Oriented Programming (OOP), System Design

PROJECTS

WeCureIT – *SpringBoot, NextJS, PostgreSQL, Firebase, AWS*

- Engineered a full-stack clinic management platform supporting 3 user roles (patients, doctors, admins), dynamic appointment scheduling, and facility–specialty mapping, reducing manual scheduling conflicts by ~70%
- Implemented rule-driven availability logic (hourly breaks, lunch intervals, single-facility/day constraint) and optimized REST APIs, enabling concurrent booking for 100+ simulated users with sub-200ms average response time

MediMate – *Large Language Model, Natural Language Processing*

- Built an AI-powered clinical decision support system trained on 30K+ PubMed articles (titles + abstracts), enabling symptom-based diagnostic suggestions using semantic retrieval and LLM reasoning
- Implemented embedding generation and similarity search with ChromaDB, reducing information lookup time for clinicians by ~40% while improving preliminary diagnostic accuracy by 10–15%

Obesity Risk Analytics – *Python, Pandas, Scikit-learn, Time-Series Analysis*

- Built a county-level obesity risk analytics platform using longitudinal U.S. public health data (2010–2023), analyzing 3,000+ counties across socioeconomic and behavioral indicators to identify high-risk populations, improving high-risk county detection accuracy by ~20% over baseline trends

Design of Animal Intrusion Detection and Rescue System – *CNN, Embedded Systems, YOLO*

- 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

Driftline – *Distributed Systems, Observability, Python, OpenTelemetry*

- Built a behavioral drift detection platform over distributed traces, detecting dependency and p95 latency regressions (>2×) within 1–2 minutes using execution-graph diffing and baseline snapshots, processing 1,000+ spans/min with <100 ms ingestion latency and reducing simulated incident MTTR by ~50%.