

# Subhrangsu Bose

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## PROFESSIONAL EXPERIENCE

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### Ericsson Inc., US

June 2024 - Present

#### Integration Engineer

- Engineered a fault-tolerant backup and recovery system for AT&T's RAN automation platform (EIC) using **Python**, **REST APIs** and **Azure** Blob integration, cutting manual recovery effort by 90% across clusters serving 100M+ users
- Built a **Flask/FastAPI** app to automate vulnerability scans for 20+ SW releases, cutting compliance effort by 50%
- Refactored **EIC** upgrade **pipelines** with automated RBAC validation and secret handling, boosting reliability by 30%
- Devised a pre-upgrade test layer with cluster state verification & checksum enforcement, cutting rollbacks by 15%

### Ericsson Inc., US

June 2023 – August 2023

#### Integration Engineer Intern

- Refined uptime testing of VNFs using **Python** & **K8S** liveness probes, cutting post-launch downtime issues by 30%
- Streamlined **Openshift** integration for 3+ clients by adding improved conditional retry logic and robust API error logging to **Python** deployment scripts, reducing infrastructure downtime by 10% for 1M+ users
- Optimised **CI/CD** pipelines with health-check-based auto-rollback, cutting failed release recovery time by 40%

### The University of Texas at Dallas (UTD), US

January 2023 – June 2023

#### Deep Learning (DL) Research Assistant

- Constructed **Tableau** dashboard for 5+ unlabeled datasets, highlighting weaknesses in self-supervised workflows
- Engineered a linear scaling data augmentation strategy in **PyTorch**, accelerating video learning by 20%
- Further devised an on-the-fly adaptive augmentation in PyTorch using batch-wise correlation analysis, improving fine-tuning accuracy by over 15%, with a 60% lesser storage utilisation

### Amadeus Software Labs, India

August 2021 – July 2022

#### Quality Assurance Engineer

- Validated new app features by monitoring and stabilizing 4000+ functional, non-functional, and regression tests
- Maintained over **95% passed** test case rate to allow seamless weekly software updates in production environment
- Created automation scripts using **Python** to add configurations into 7+ backends, as part of migration to **Azure**
- Developed a swift, self-driven regression framework using **Robotframework**, saving 30+ hours of manual testing

## PROJECTS

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### HiredIn Tool (*AI-driven tool streamlining recruiter outreach and engagement*)

- Designed an automated web app for job-seekers using **Selenium** to identify & connect with recruiters on LinkedIn, scraping data and sending tailored invites to 50+ profiles in <5 mins, leading to 30% more callbacks
- Developed an **NLP**-driven conversation engine with sentiment analysis to mirror user tone and adapt responses dynamically, resulting in a 50% reduction in response time
- Implemented a recruiter ranking model using **TF-IDF** and **BERT** embeddings to prioritize outreach by user's skill alignment and recruiter's reply probability, improving relevant response rate by 40%.

## TECHNICAL SKILLS

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Languages: C/C++, Python, HTML/CSS, JAVA, Javascript, SQL  
Frameworks & Tools: Git, NodeJS, React, Jenkins, Docker, Linux, Kubernetes, Azure, Kafka  
Databases: MongoDB, MySQL, Postgres  
ML Tools/Packages: Pytorch, TensorFlow, OpenAI APIs, scikit-learn  
Other: API Design, CI/CD, Distributed Systems, Observability (ElasticSearch), Agile/Scrum, OOP

## EDUCATION

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The University of Texas at Dallas (UTD) - Master of Sc. in **Computer Science** (CS)

August 2022 – May 2024

GPA: **3.5**

Vellore Institute of Technology (VIT) – Bachelor in **Mechanical**, Minor in **CS**

August 2017 – June 2021

GPA: **4.0**