

# MANOJ HANUMANTHU

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## ABOUT ME

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A detail-oriented and cloud-savvy Software Engineer with 2+ years of professional experience, currently working at Deutsche Börse Group as a Working Student. I specialize in cloud infrastructure (AWS), Identity Access Management (IAM), scripting, and data-driven troubleshooting. I bring strong analytical thinking, Python automation, and secure system practices to contribute to high-performing, secure, and scalable platforms. Eager to apply my skills in IAM, PAM, and Cloud Security in a dynamic and impactful team.

## EDUCATION

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- **Master's in Information Technology**, Frankfurt University of Applied Sciences, Germany (Oct 2024 – Present)
- **Bachelor's in Electronics and Communication Engineering**, R.M.K Engineering College, Chennai, India (June 2019 – May 2022) CGPA: 8.82/10.0

## EXPERIENCE

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### 360T Deutsche Börse Group, Frankfurt

Aug 2025 – Present

Working Student – Technical Client Advisory

- Serve as the first point of contact for clients using the 360T trading platform, providing support via **client calls**, **Freshdesk tickets**, and **Jira requests**.
- Troubleshoot and resolve critical client issues including **trade cancellations**, **trade import errors**, **memory performance problems**, and **user access management**.
- Collaborate with cross-functional technical teams to diagnose complex issues and provide tailored solutions, ensuring minimal disruption to client operations.
- Deliver a seamless client experience under pressure by prioritizing urgent tasks, managing escalations, and communicating with stakeholders clearly and effectively.
- Assist clients in navigating the platform's functionalities and improve their understanding of features such as **user roles**, **security permissions**, and **workflow optimization**.
- Contribute to internal knowledge base articles and **support documentation** to improve issue resolution times and client self-service capabilities.
- Advocate for client needs by identifying recurring pain points and recommending enhancements to the product and user experience teams.

### 360T Deutsche Börse Group, Frankfurt

Dec 2024 – July 2025

Working Student - Orchestration and Stability

- Developed and maintained the **CatchItMain database** using Python, ensuring efficient data handling.
- Migrated **log processing workflows** from Sentry to PUI, designing and implementing the solution from scratch.
- Fetched logs from **Elasticsearch**, cleaned stack traces, and generated unique HashIDs for grouping logs.
- Automated periodic log processing using timestamps and integrated with the PUI system.
- Built scalable **APIs with FastAPI** and streamlined real-time data analysis with **Elasticsearch**.

### Mphasis, Bengaluru, India

June 2023 – October 2024

Software Engineer – FSC Chassis (FedEx)

- Developed an **Operational Data Store (IDS)** for FedEx Supply Chain, integrating data from multiple sources.
- Executed test cases using **SQL queries** for data validation and transformation logic.
- Conducted detailed **report analysis and testing** to ensure data accuracy and business compliance.
- **Mentored team members** and provided knowledge transfer on project-specific data procedures.
- Validated data between source and target tables, ensuring transformation correctness and consistency.
- Performed **root cause analysis** to resolve mismatches and improve reporting reliability.

### Mphasis, Pune, India

June 2022 – May 2023

Associate Software Engineer – DevOps and Cloud Engineering

- Delivered and maintained scalable, secure infrastructure on **AWS** (EC2, S3, IAM, VPC, CloudWatch) to support high-availability enterprise apps.

- Automated resource provisioning and configuration using **Infrastructure as Code (IaC)** with Terraform and CloudFormation.
- Developed and optimized **CI/CD pipelines** using GitLab CI, AWS CodePipeline, and CodeBuild for rapid and reliable deployments.
- Implemented IAM roles, RBAC, MFA, and encryption standards to ensure **secure access control and compliance**.
- Monitored systems using CloudWatch and Elasticsearch, enabling proactive alerting and reduced downtime.
- Led efforts in **cost optimization** by analyzing usage, applying S3 lifecycle policies, and tuning compute resource allocation.
- Enabled **autoscaling and load balancing**, improving system resilience under high-traffic conditions.
- Collaborated across Dev and QA teams to streamline deployments and environment management across SDLC stages.
- Earned **AWS Certified Developer – Associate** credential, validating practical cloud and DevOps proficiency.

**Francium Tech, Chennai, India**

*March 2022 – May 2022*

*Intern – Solution Consultant*

- Created and executed **manual test cases** for functional and regression testing.
- **Logged bugs in Jira** with detailed reproduction steps and collaborated on resolutions.
- Performed **cross-browser and cross-device testing** to ensure platform consistency.
- Assisted in **automating regression test cases** using Selenium and Python.
- Contributed to maintaining an **automated test suite** and updating scripts regularly.
- Generated comprehensive **test reports** outlining results and defect trends.
- Gained hands-on experience with modern QA **automation tools and frameworks**.

## ACADEMIC PROJECTS

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### Input Reconstruction Using Hierarchical Temporal Memory and K-Nearest Neighbors Classifiers

- Designed and implemented an experiment to reconstruct scalar inputs using **HTMClassifier** and **KNNClassifier**.
- Developed a machine learning pipeline integrating **HTM encoding, SDR generation, and classification-based reconstruction**.
- Conducted a **comparative analysis** of HTM and KNN classifiers using similarity metrics such as **cosine similarity** to evaluate accuracy and efficiency.
- Utilized **.NET Core, NeoCortexAPI, and OxyPlot** for implementation and visualization.
- Presented results with **similarity graphs comparing original and reconstructed inputs**, highlighting classifier performance differences.

## SKILLS

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| <ul style="list-style-type: none"> <li>• <b>Languages:</b> Python, Java, C#, Bash, PowerShell (Basics)</li> <li>• <b>Testing &amp; Automation:</b> Selenium, Postman, ETL QA Testing, TestNG, FastAPI Automation</li> <li>• <b>Cloud &amp; DevOps:</b> AWS (EC2, S3, IAM, VPC, CloudWatch, Lambda), Docker, GitHub CI/CD, AWS CodePipeline</li> <li>• <b>IAM &amp; PAM:</b> AWS IAM, Role Mapping, RBAC, MFA, Privilege Escalation Control, Access Auditing</li> <li>• <b>Security:</b> Incident Log Monitoring, Cloud IAM Policies, User Access Troubleshooting</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Databases:</b> SQL, MySQL, Elasticsearch</li> <li>• <b>Web Development:</b> HTML, CSS, Angular (Basics), FastAPI</li> <li>• <b>Development Methodologies:</b> Agile, Scrum</li> <li>• <b>Tools:</b> Git, GitHub, Jira, Confluence, Freshdesk, Kibana</li> <li>• <b>Soft Skills:</b> Client communication, problem-solving, debugging, mentoring, cross-functional collaboration</li> </ul> |
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## CERTIFICATIONS

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- AWS Certified Developer – Associate (DVA-C02) (Apr 2023 – Apr 2026)
- Python Full-Stack Internship at Brain O Vision Solutions Pvt. Ltd. (Sep 2021)
- Web Development Internship at Brain O Vision Solutions Pvt. Ltd. (Aug 2021 – Sep 2021)
- Technical Training – Sri Venkateswara Bhakti TV Channel (May 2018 – Nov 2018)