Abhin Mankalale

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EDUCATION

- **Birla Institute of Technology and Science** — Goa, India
  Bachelor of Engineering in Electrical and Electronics; — *Aug 2015 – July 2019*

SKILLS

- **Languages**: Java, Python, TypeScript
- **Cloud & DevOps**: GCP, AWS, Terraform, Github Actions, TeamCity
- **Frameworks**: Springboot, Flask, FastAPI, Angular, Node.js

EXPERIENCE

- **Deustche Bank** — Bangalore, Karnataka
  Associate Software Engineer — *Mar 2022 - Nov 2024*
  - **Cloud Migration**: Designed and implemented backend services for automated GCP Landing Zone provisioning, standardizing network, security, and compliance controls, reducing onboarding effort for application owners migrating from on-prem to cloud.
  - **Integeration & Development**: Developed centralized identity and access workflows by connecting internal Active Directory with the application, simplifying secure team onboarding and management for GCP Landing Zones.
  - **Feature Development**: Developed an integrated activity tracking system to monitor and document inter-team communications and progress checkpoints, enhancing visibility and control in Landing Zone deployment.
  - **Monitoring & Observability**: Implemented an end-to-end monitoring and reporting solution for cloud applications, harnessing the capabilities of Google Cloud Platform APIs and Grafana to gather and visualize crucial usage metrics for applications across the organization.
  - **Automation & Toil reduction**: Led the development of the bank's Cloud SRE support automation solution integrated into the on-boarding platform, eliminating over 300 hours of toil per month.
  - **CI/CD & Process Optimization**: Implemented Continuous Integeration/Delivery pipeline for the Landing Zone provisioning application with GitHub Actions, resulting in a 60% reduction in deployment time, integrated them with the SDLC and Veracode pipelines for quality checks and evidence collection.
- **Deustche Bank** — Bangalore, Karnataka
  Technology Analyst — *July 2019 - Feb 2022*
  - **Process Optimization**: Designed and upgraded the self-service VM modification tool (eliminating the need for tedious manual vendor process and costs) and reduced the turnaround time for upgrades from 3 weeks to 5 minutes.
  - **Development**: Implemented custom VM segregation and placement logic (having dedicated hosts for Linux and Windows) reducing ESXI and Microsoft licensing costs which helped save over €2.2 million yearly.
  - **Automation & Toil reduction**: Implemented Ansible automation pipelines to resolve high-priority incidents such as server outages and drive space issues, reducing manual intervention in incident resolution by 90%.
  - **Security & Compliance**: Refactored the codebase to eliminate manual handling of API key decryption by integrating the Jasypt library in Java, enhancing security and enabling seamless management of API keys for the bank's internal VM platform.
  - **CI/CD & Process Optimization**: Established Continuous Integeration/Continuous Delivery pipelines for the bank's internval VM provision portal using TeamCity, reducing the deployment time by 90%. Helped integrate SonarQube to improve code quality assurance.

PROJECTS

- **Software Engineer Intern at Infinity Labs UST Global**: Used OpenCV3 to extract the license plate and extract the digits with a CNN based classifier implemented in tensorflow. Using this, created a proof of concept pipeline for Toll booth management to verify a user's license plate.