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, JavaScript, SQL
- **Technologies**: GCP, AWS, Angular, GITHUB Action, Springboot, Terraform, TeamCity, Grafana

Experience

- **Deustche Bank** — Bangalore, Karnataka
  Associate Software Engineer — *March 2022 - November 2024*
  - **Development**: Developed the bank's portal for provisioning Landing Zones for GCP using Node.js, Angular, Python, TFE building the backend code required which was instrumental in the hybrid cloud journey of the bank
  - **Development**: Developed the workflow for creation of active directory groups for seamless integration of users before provisioning Landing Zones
  - **Development**: Helped create the activity log for communication between teams and verify the steps involved in the Landing Zone process
  - **Monitoring**: 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 performance metrics across the organization
  - **Toil**: Developed the bank's SRE support automation solution using Python Fast API, Angular, Shell, TFE and GitHub Actions, eliminating over 300 hours of toil per month
  - **Workflows**: Implemented CI/CD pipelines for the applications 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 - March 2022*
  - **Automation**: 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
  - **Automation**: 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**: Implemented Automation pipelines with Automic, for resolving priority incidents, which helped resolve issues on server outages, drive space. This helped reduce manual intervention of resolving such incidents by 90%
  - **Security**: Refactored the codebase and fixed the security vulnerablity of handling decryption of API keys manually, using Jasypt library in java. This allowed seamless management of API keys for the bank's internal VM platform
  - **CI-CD pipeline**: Established CI-CD 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————

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.
- **Structural Health Monitoring of a Bridge**: Designed an 8086 microprocessor-based system for collection and transmission of data to a computer for health monitoring of a bridge due to various factors like weight, wind, temperature, humidity. This was simulated using Proteus.