John Phinehas Penke

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Software Development Engineer with a strong passion for creating efficient and scalable solutions offering 4.5 years of experience in Java full-stack development in a product based fintech. Proficient in Data Structures and Algorithms, Object oriented analysis, System Design, and expertise in all aspects of SDLC involving requirement analysis, design, development, unit testing, deployment and bug fixing. Actively exploring opportunities in software development to leverage my skills and experience in building robust applications.

EDUCATION

PROGRAM	INSTITUTION	%/CGPA	YEAR OF COMPLETION
B. Tech in Chemical Engineering	Indian Institute of Technology, Madras	7.21/10	2019
XII	Narayana Junior College, Kakinada	97.7	2015
X	Narayana e-Techno School, Kakinada	9.5/10	2013

RELEVANT COURSEWORK AND SKILLS

Programming and Data Structures	Design and Analysis of Algorithms	Machine Learning for Engineering and Science Appl.
Database Management System	Computational Programming	Graph Theory and its Applications in Process Design

Programming Languages: Java, C++, Bash
Front-end: Google Web Tool Kit, HTML, CSS
Software: Eclipse, Spark, Talend ETL, Git, Matlab
Back-end: Spring Boot, Hibernate, REST, Oracle

PROFESSIONAL EXPERIENCE

Application Developer, Reconciliation Control Management, Citicorp, Chennai *Jul 2019 - Dec 2023*

My work involves development of Recon Portal, an in-house web based application built to enable users to reconcile and manage breaks/execptions from a consolidated location and single user interface for all breaks across various platforms and tools

- Designed, developed, and rolled out Quarterly Department Attestation process to enable business owners to modify, configure and schedule source codes in order to subscribe rules for trade data reconciliation across various regions using J2EE middleware
- Implemented audit features, email automation and designed reporting dashboards for the attestation process using Java, GWT
- Re-architectured the archival process of huge volume of generated breaks (~2 billion per month) to run independently and concurrently using multithreading and exchange partition which reduced the downtime of the application by **45%**
- Lead analysis, upgrade and testing of highly scalable **ETL** Talend jobs using query optimisation, bulk loading and indexing to fetch transactions from source reconciliation engines on a daily basis to enable users to reconcile breaks manually
- Designed asynchronous job executor system to update the department owner hierarchy using minimal hits to Global Directory
- Worked on continuous integration and deployment piplelines and led production release activities of 8 Reconciliation apps
- Endowed with **Citi Gold award** - Recognition for best performance in Global Reconciliation Unit, Chennai - Q3 2021

Application Developer, Artificial Intelligence for Reconciliation, Citicorp, Chennai *Sep 2021 - May 2022*

GRU Tech in partnership with TLV Innovation Lab rolled out AI solution to improve recon efficiency, remediation of genuine breaks/fraudeulent transactions and reduce risk. Model helped **resolve $11B worth of breaks** and manual touch point reduction

- Designed, programmed and rolled out Java based Spring boot API for seamless data transfer from various trade regions to Machine Learning modules to enable auto reconciliation process and leveraged **SSL** secure authentication and authorization
- Implemented **Outbound, Inbound, RESTful** WebServices to send the open breaks and receive the proposed automatches

PROJECTS

PIR, Olympus Data Conduit Onboarding

- Designed application based on Spark to validate the meta data information between Olympus and Netezza data warehouse
- This model is built to automate the validation of metadata and number of records between any set of database
- Designed application based on Spark to validate the meta data information between Olympus and Netezza data warehouse

Machine Learning for Engineering and its Applications

- Implemented SVM with Gaussian RBF to build email spam filter by extracting features from the dataset using a vocab list
- Anomaly Detection using Multivariate gaussian by finding F1 scores to detect systems with high latency and low throughput
- Modelled Recommender System using Collaborative filtering gradient to predict ratings of movies and to recommend movies

POSITIONS OF RESPONSIBILITY

- **Core Member, Institute Design Team** (2017-18)
  Led a team of 10 coordinators by conducting Graphic Design Workshops to improve design skills of team individuals
  Handled design requirements of SGS Council & 8 Student bodies, generated around 170+ graphic designs during the year
- **WebOps Coordinator, Chemical Engineering Society** (2016-2017)
  Worked in a team of 6 to build a website for ChES, connecting students to AIChE providing them global exposure
  Conceptualized front-end design and designed UI elements to facilitate online publicity that attracted 1.5L rupee sponsorship