Prudhvi Sairam Chundru

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Work Experience

Senior Applications Developer, Oracle   Sep 2020 – Dec 2023 | Hyderabad, India

As an applications developer in the Payments team of Fusion Financials organization, with over 3 years of experience, I collaborated with several teams for the development of new features and tools, fixing backend and frontend bugs using ADF framework, Java, SQL, PL/SQL, Python, and Javascript.

- **Budgetary Control Integration:**
  - Assists customers in paying suppliers within planned budgets, preventing payment rejections due to insufficient funds.
  - Integrated Payment Process Request flows under Payables Payments with Budget Control interfaces and APIs for Reservation and Unreservation of Funds.
  - Developed end-to-end solution, including data model changes, payment grouping based on ledger, Budget Control product interface integration, fund status registration, and UI display of funds reservation history.
- **Common Architecture for Credit Card Payment Processing:**
  - Enables clients to integrate any PCI-certified credit card gateway for processing payments, utilizing a configurable common architecture instead of out-of-the-box integrations provided by specific vendors.
  - Implemented out-of-the-box integration with a payment gateway, including generation of gateway-specific payload formats and launch of gateway forms for credit card entry.
  - Created Transaction Query API to reconcile potentially lost payments due to network issues.
- **Virtual Cards Project:**
  - Helps customers (buyers) to pay suppliers using Virtual Credit Cards instead of traditional bank account transfers, involving multiple parties (buyer, bank, card network).
  - Involved in complete design of the feature and worked on creating configurations for these virtual card payments.
  - Executed extensive data model changes (base tables, audit tables, views, indexes) for feature configuration, allowing users to create programs linking buyers, banks, and card platforms, and associate funding card accounts for payments.
- **Accessibility and Testing:**
  - Coded comprehensive PL/SQL test cases for the multi-national bank account creation, ensuring robust functionality across 35+ countries.
  - Resolved numerous accessibility issues, significantly improving website navigation for users with disabilities.
  - Increased Java and PL/SQL test case coverage, increasing productivity and enhancing code maintenance for key projects.

Education

Purdue University Fort Wayne, *Master's in Computer Science*   Jan 2024 – May 2025

Courses: Software Engineering, Human Computer Interaction, Heuristic Problem Solving, Natural Language Processing, Quantum Computing, Algorithms Design and Implementation

National Institute of Technology, Calicut, Kerala,   Jul 2016 – May 2020
Computer Science and Engineering(B.Tech)

Courses: Data Structures & Algorithms, Database Management Systems, Image Processing, Advanced Neural Networks, Bio-Informatics, Cryptography, Operating Systems, Compilers.

Skills

Programming Languages: Java, PL/SQL, SQL, Python, JavaScript, C, C++

Databases: Oracle DB, MySQL, SQLite, Firebase

Concepts & Frameworks: Transformers, Oracle ADF, Oracle Jet, Object Oriented Programming, System Design, Microservies, Flutter

Other Technologies & IDEs: HuggingFace, JDeveloper, SQLDeveloper, Oracle ADE, HTML/CSS, Git, Linux, Pytorch, Scikit-lib, Conda

Projects

Offensive Text Detection using Natural Language Processing, *(Python, PyTorch, Transformers, HuggingFace)*
- Built a novel two-phase training approach combining complete and balanced datasets, achieving PR-AUC scores of 0.6137 and 0.6476 on Civil Comments and Jigsaw datasets.
- Evaluated performance of 3 model architectures (LR, LSTM, DistilBERT) across 6 toxicity categories, with DistilBERT achieving 98.23% AUC and demonstrating transformers superior capabilities compared to traditional approaches in NLP.
- Published trained DistilBERT models on HuggingFace Hub and created an interactive demo space enabling real-time toxicity detection.

Purdue Fort Wayne Attendance Tracking System, *(Java, SQLite, Outlook API, ZXing Lib, GitHub)*
- Collaborated with professor to develop and enhance an Android application for student QR attendance tracking and report generation, improving classroom management efficiency.
- Designed and coded a UI screen which display detailed student attendance data, including visual indicators for attendance status.
- Integrated an automated report generation feature, providing detailed attendance analytics for individual students, courses, and specific time periods.

Breast Cancer Histology Images Classification using Convolutional Neural Networks, *(Python, OpenCV lib, fast.ai lib)*
- Constructed three CNN models that are trained on Densenet-201 architecture.
- Applied different extensive image-processing techniques like color normalization and dividing images into patches and data augmentation for the training dataset.
- Achieved a good accuracy score of 88% from these models by applying a majority voting scheme.

Awards

Best Quarterly Performer, *Sr. Director, Oracle India (2021)*
- Awarded Best Quarterly Performer in the first-ever quarter of joining the company for outstanding performance, being the only fresher to receive this recognition in the Financials organization.

Prathiba Award, *Govt of Andhra Pradesh (2016)*
- Achieved excellence in an exam taken by 100,000+ students, ranked top 2 in district and top 0.1% (5th) in state.