Aryaman Sondhi

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EXPERIENCE

Software Engineer (Backend/Systems) (Client: AT&T, NISE-Core Platform)   November 2024 - Present
TechMahindra in Delhi, India

- Develop backend functionality across application and database layers for **AT&T's NISE-Core**, a mission-critical telecom inventory and provisioning platform supporting **multiple service workflows and enterprise-scale network inventory**.
- Translate formal **FRS documentation** into production-grade system logic, independently resolving **ambiguous or incomplete requirements** and collaborating with AT&T stakeholders to clarify **core system behavior prior to implementation**.
- Design and implement backend changes across **C++, Pro*, and PL/SQL**, including creation of new stored procedures and modifications to **long-running legacy flows with multiple downstream system dependencies**.
- Deliver production-bound backend changes as part of a **bi-weekly / tri-weekly release cycle**, supporting **multiple concurrent service requests**, with QA validation and senior code reviews serving as governance for high-risk changes.

Software Engineer I Intern, DevOps   May 2023 - August 2023
Cummins Inc. in Columbus, IN

- Designed and delivered a **PowerApps-based project management solution** for Project Managers, reducing user interaction overhead by **25%** and increasing form completion rates by **60%** through streamlined workflows.
- Automated reporting pipelines and notification workflows using **Power Automate**, replacing manual email follow-ups and improving project visibility and response times by **20%**.
- Developed **JavaScript- and APEX-based workflow automation**, eliminating **80% of manual interventions** and improving consistency and reliability across project execution processes.
- Enhanced **PowerBI dashboards** with real-time data updates to support **project tracking, operational monitoring, and management reporting**, enabling data-driven stakeholder reviews.

Quality Practices Automation Engineer Intern   May 2022 - August 2022
Cummins Inc. in Columbus, IN

- Built **PowerBI dashboards** consolidating project data, status, and metrics, reducing manual tracking effort and saving **Project Managers approximately 6 hours per day**.
- Implemented **application suspension strategies** to replace manual Excel-based tracking of idle applications, reducing operational costs by **$6,700 per project**.
- Analyzed results from **dynamic security scans**, aligning findings with **OWASP Top 10** categories to support security risk assessment and prioritization.
- Optimized **TOSCA-based test automation integrated with qTest**, reducing manual testing effort and enabling faster, more reliable test execution.

EDUCATION

Bachelor of Science (B.Sc.), Computer Science   August 2020 - May 2024
Penn State University, University Park, State College, PA
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Systems Programming, Machine Learning

TECHNICAL SKILLS

Languages: C, C++, Python, Java, SQL, JavaScript

Backend & Databases: PL/SQL, Pro*C, Oracle, MySQL

Systems & Platforms: UNIX/Linux, AWS, Azure

Data & Visualization: Power BI, Jupyter

Automation & Testing: TOSCA, qTest, Power Automate

Tools: PowerApps, APEX, Git

PROJECTS

BudgetBuddy   2024
- Developed an AI-driven financial planning tool for students using Python, enabling personalized budgeting and expense tracking through rule-based categorization and ML-driven insights.
- Built a secure Python backend integrating machine learning models and bank data via secure APIs.

Integrated Commodity Analysis and Prediction Platform (ICAPP)   2024
- Built predictive models using Python and PySpark for commodity and stock price forecasting.
- Designed a user interface for real-time analytics and data visualization.

CERTIFICATIONS

Machine Learning / Data Learning Certification (IIT Delhi, TimesPro) | J.P. Morgan SWE Virtual Experience | Six Sigma Yellow Belt