LAKSHMI PREETHI KAMAK

lkamak@lakeheadu.ca +1 8077095628

PROFILE 10+ years experience in end-to-end software development, specializing in project management, budgeting, impact analysis, and Agile methodologies. Skilled in data modeling, analytics, and web development, with a track record of transforming complex data into actionable reporting insights and developing modern tech stacks. A proactive team player with strong problem-solving and interpersonal skills, focused on data-driven sustainable business growth and anticipating future trends.

EXPERIENCE

IT Developer | Analyst - *Canada Revenue Agency,* OCT 2023 to PRESENT

▪ Served as **Project Leader**, managing sectional dashboards for digital transformation DAD DDI, ITB and facilitating costing calls for on-boarders, impact assessments and option analysis.
▪ **Scrum Master** for cross-functional teams, facilitating standups, sprint retrospectives, and backlog refinement. Proactively identified actionable items for timely delivery and reduced scope creep.
▪ Built a **full-stack multilingual Angular application** with web accessibility for digital *tax* forms, translating wireframes into functional UI components.
▪ Implemented RESTful APIs in Java, MongoDB for data management, SOAP UI for testing, and **cloud-integrated** reporting solutions using Azure Blob Storage.
▪ Designed API for volumetrics handling 50k-100k hits with optimized OT performance. Intra departmental partner data exchange for tax identities with dental care, disability benefit
▪ Led **Database modeling** with HLBR consumption, configuration management, and ER diagrams.
▪ Achieved **80% testing code coverage** with Karma and Jasmine and cleared code smells in SonarQube
▪ Maintained **Dashboards** to support data-driven decision-making for director-level presentations.
▪ *Spearheaded **release plan** for cloud project, serving as the pathfinder for auto-deployment during early maintenance hours, reducing rollout time **by 30%.** Received appreciation from management.*

Research Assistant - *DaTALab, Lakehead University,* 2021 - 2023

▪ Actively developed **Data Science projects** of classification pipeline using NLP classifiers and text embedding methods, concept AI mirror using OpenCV and diffusion models, recommendation model using AWS Personalize, SageMaker, and also conducted **cloud experiments** on AWS EMR.
▪ Assisted in undergraduate teaching for Big Data, Artificial Intelligence, Cloud Computing and RDBMS.
▪ Implemented **CUDA-based ELM model** with **94.4% accuracy** securing 1st place in university Hackathon.

Data Engineer Associate - *Cognizant Technology Solutions,* 2018 to 2021

▪ Led a team of five to manage industrial *telecommunication* **data pipelines** using **ETL** tools, incorporating scrum stand-ups to transform business requirements into operational code through agile methods.
▪ Performed data profiling and analysis of legacy systems and implemented wrangling with NumPy and Pandas to integrate with **data warehouses**.
▪ Constructed cohort business analysis **reports** using robust statistical techniques with SciPy, PyTables, SQLAlchemy, and Seaborn to identify and manage the trade-off between corrupted data and operational planning.
▪ Identified, troubleshooted, and resolved code defects to ensure system reliability, data integrity.
▪ Enabled movement to **new tech stack** with large-scale adoption of Python where traditional ETL tools had limitations. **Optimized code** to remove legacy roadblocks and identified bottlenecks in performance.
▪ *Improved system performance, by automating job runs, resulting in saving 6000 hours, reducing customer wait time on each delivery **by 3 hours.***

Senior Software Engineer- *Solartis Technology Services,* 2013 to 2018

▪ Tasked with **Business Intelligence (BI)** and end-to-end development of the reporting layer for *insurance* policy administration.
▪ Led **Database modeling** for *insurance* data warehouse including HLBR consumption, configuration management, and ER diagrams.
▪ Mined large data sets by parsing structured (XML/JSON) and semi-structured data (Broken CSV files), to identify trends and risks.
▪ Designed and deployed **microservices** to production by consuming the Pentaho Report generation engine, reducing reporting layer costs by 60%. Automated report bursting in various formats like PDF, Excel, XML based on customer needs.
▪ Integrated **RESTful web services** and xHTML UI using Java APIs and hibernate framework.
▪ Performed geostatistical analysis that identified an opportunity to decrease auditing costs **by 21%,** by assessing coastal hazards and flood risks to insured assets and boosted yearly revenue.
▪ *Transformed risk management data into **Pentaho Dashboard**, enabling customers to proactively predict claims trends and identify loss.*
▪ *Enabled off-the-shelf **reporting** using logging for metrics like monthly client usage, most consumed reports, generation time, etc.*

SKILLS

▪ Frontend Development
▪ Backend Development
▪ API Development
▪ Database Modelling
▪ ETL & Business Intelligence
▪ Data Analytics & Machine Learning
▪ Cloud computing
▪ Agile methodologies
▪ Project management
▪ Cost management
▪ Stakeholder communication
▪ Testing and Quality Assurance
▪ DevOps practices

TECHNICAL SKILLS

Framework: *Angular, HTML5, CSS3,* RESTful *Java* APIs*, JavaScript (Karma, Jasmine)*
Cloud Computing: *AWS, Azure and Microsoft Fabric.*
Data analytics: *Python* libraries (NumPy, Pandas, Scikit-learn, Keras, Flask), PSPP, Excel
Machine Learning: *Clustering, Regression, Predictive modeling, Diffusion and NLP models*
ETL & Reporting: Tableau, Pentaho
Databases: *Oracle, MySQL, SQL, Postgres, MongoDB*
CI/CD & Version Control: Jenkins, Git
Project Management: JIRA
IDE: *Visual Studio Code, Eclipse, Jupyter, Spyder*
API tools: Soap UI, Postman

EDUCATION

Masters in Computer Science, Lakehead University, Thunder Bay, 2023 NSERC PromoScience Scholarship with 9.6 GPA
Bachelor of Engineering, Computer Science, Anna University, Chennai, **2013**

CERTIFICATION/ HONOURS

▪ **Summer School "AI for Industry",** *Deggendorf Institute of Technology, Germany, Scholarship - German Academic Exchange*
▪ **Azure Data Scientist Associate**, *Microsoft*
▪ **Microsoft Fabric Associate**
▪ **WhiteHat certified Secure Developer**
▪ PMI® - Project management Institute Gen AI for Project Managers

LANGUAGES

English (Fluent),

French (CLB/NCLC Level 2)

REFERENCES *Alli Baksh, Manager, CRA* alli.baksh@cra-arc.gc.ca *343-572-4227, Jennifer Roy, TL, CRA* jennifer.roy@cra-arc.gc.ca *343-575-6567*