

Rahul Tulani

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Software Developer with 6+ years of experience, including full-stack development. Skilled in Java, Python, Angular, and cloud technologies. Passionate about building scalable applications, designing robust APIs, and improving software efficiency and maintainability.

EDUCATION

Dalhousie University

Master of Applied Computer Science

Halifax, Canada

Sep 2021 - Dec 2022

Punjab Engineering College (Deemed To Be University)

Bachelor of Technology in Electronics & Communication Engineering

Chandigarh, India

July 2014 - June 2018

PROFESSIONAL EXPERIENCE

Canada Revenue Agency

IT Analyst/Developer (CS-02) {Full-time}

Toronto, Canada

Sep 12, 2022 - Mar 31, 2025

- Developed backend JAX-RS RESTful APIs within Java EE, integrating with an Angular frontend to enhance CRA Taxpayer portal features.
- Implemented secure and efficient Java EE backend APIs for optimized business logic processing and seamless client interactions.
- Built dynamic Single Page Application (SPA) Angular UI by structuring features into modules, components, and routing layers.
- Acted as the lead developer to design the architecture and JIRA stories/tasks of public-facing web services serving 28M+ Canadians.
- Spearheaded the development of core APIs for web service redirection between Struts and Angular, enabling seamless integration.
- Refactored existing Angular and Java code into reusable modules, reducing complexity by 60% and improving maintainability.
- Developed UI automation test cases using Playwright, ensuring alignment with business requirements and an end-user perspective.
- Providing technical assistance to developers in designing solutions, code walkthroughs, and local development environment setup.
- Coordinated and led the production sign-on process for multiple web services during routine release deployments.
- Identified and resolved critical software bugs during emergency fixes, increasing system reliability and uptime.

Modis (now known as Akkodis)

Software Engineer {Part-time Contract} {Client: Amdocs}

Toronto, Canada

Jan 24, 2022 - Aug 31, 2022

- Developed and maintained Java-based data transformation scripts in IntelliJ IDE for seamless cloud data migration.
- Implemented efficient data models and mappings using K2V Fabric and Kafka, optimizing data processing and integration workflows.
- Integrating Oracle database connection into Java for extraction, transformation, and loading processes.
- Debugging and resolving local testing issues and real-time production bugs, ensuring smooth system functionality.

CSG Systems International, Inc.

Development Consultant {Full-time}

Bangalore, India

Oct 27, 2020 - Sep 30, 2021

- Implemented PL/SQL ETL data pipelines to transform and migrate data of 50K+ subscribers to the Singleview billing system.
- Optimized code execution for monthly production runs, cutting commercial migration time by 30%.
- Carried out the Requirement Analysis to implement the architectural design and code for new SV product features.
- Developed the code for various product applications using programming languages - Core Java, Perl
- Executed Functional and Unit Testing therefore supporting testing teams during the User Acceptance Testing phase.

Amdocs

Software Developer {Full-time}

Pune, India

June 25, 2018 - Oct 19, 2020

- Led the end-to-end Extraction, Transformation, and Loading (ETL) development of billing analysis software for Telecom clients.
- Automated data migration reconciliation between legacy and Amdocs billing systems, achieving KPI targets of over 95%.
- Optimized Oracle Database performance tuning, ensuring timely deployment of large datasets of 2M+ enterprise subscribers.
- Performed manual analysis and developed automatic analysis solutions using Python to reconcile Legacy and Amdocs' billing systems.
- Designed an integrated Oracle SQL & Python solution to automate the complex Singlebill accounts' charges comparison solutions
- Enhanced code efficiency by automating bug detail parsing into Data Warehousing tools, reducing deployment runtime by 50%.
- Developed UNIX Shell scripts to devise splitting, mixing and sorting algorithms increasing the throughput of billing execution by 4x.
- Collaborated with global teams across key hubs—Australia, Israel, India, Ireland, and Brazil—to achieve project deliverables.

TECHNICAL SKILLS

- **Programming Languages:** Python, JAVA, JavaScript, TypeScript, C++, C, Object-Oriented Programming, SQL, PL/SQL, Unix Bash, Perl
- **Web & Cloud:** HTML5, CSS3, ReactJS, Node.js, Express, Angular, Java EE, Spring Boot, REST, JSON, XML, Google Cloud Platform (GCP) - Cloud Firestore, Cloud Functions, AWS - Lambda, Elastic Beanstalk, DynamoDB, S3, SES, VPC, CloudFormation, API Gateway
- **Industry tools:** IntelliJ, Eclipse IDE, Oracle WebLogic Server, Jenkins, SonarQube, Playwright, GIT, Maven, Gradle, CI/CD, Docker, JIRA, ETL, K2VIEW Translator Studio, K2VIEW Fabric, Informatica, Spyder IDE, Jupyter, Numpy, Pandas
- **Technologies:** Oracle Database, MySQL, Microservices, Hadoop-HDFS & MapReduce, Kafka, MongoDB, Cassandra, NoSQL, Agile, Scrum
- **Keyskills:** Data structures & Algorithms, Problem solving, Operating Systems, Basic Machine Learning, Analytics, Solution finding

NOTABLE PROJECTS

Bed & Breakfast: Multi-cloud Serverless web application

- Integrated multiple cloud services from AWS and GCP to build Food, Tour and Hotel services as part of the serverless application.
- Implemented full backend code functionality using only Serverless services like AWS Lambda and Google Cloud Functions.
- Developed key modules like Authentication, Machine Learning, Online Assistant, Message parsing and Data visualization.

Document Manager: Cloud Storage Drive

- Developed a Cloud storage web application using AWS services like Elastic Beanstalk, DynamoDb, S3, Lambda, SES, VPC
- Implemented AWS CloudFormation to automate application infrastructure provisioning.
- Developed a URL shortener microservice to shorten file URLs for easier sharing.

Cozmos: An eCommerce Shopping Platform

- Using NodeJS and Express, developed the backend RESTful APIs for various features like product catalog, cart, wishlist, and purchase.
- Implemented front-end User Interface and Experience using ReactJS, JSX and CSS3.
- Built comprehensive MySQL database design and integrated it for full-stack application development.

Stock Price Analysis & Prediction

- Developed Supervised Machine Learning models to predict stock prices.
- Following the CRISP-DM process, Linear Regression and LSTM Neural Network were successfully implemented.
- Generated insights into the stock price comparison between before and after COVID-19.

CentDb - Centralized Database Management System

- Developed a custom file formatted and console interface database management system using JAVA.
- DBMS application allows users to execute standard SQL DDL, DML, DQL and DCL operations.
- Integrated the Database Analytics and Data Modelling utilities to the application.

Task Manager

- Developed Spring Boot JAVA application & CI/CD Git pipeline for a JIRA-like prototype-Task Management System.
- Incorporated features like user login/registration module, creating teams, projects, tasks, and assigning/updating/deleting tasks.
- Ensured adherence to Clean Code practices, Test-Driven Development (TDD), SOLID principles, and design patterns.

Online Password Checker

- Developed a Python web app to assess password security by checking past compromises.
- Implemented REST APIs using Flask and secured user inputs with SHA1 encryption for test case validation. Link: [Application](#)

CERTIFICATIONS

- Microsoft Cloud Certification: Certified Azure Fundamentals | Certificate Verification: [Credential Link](#)
- Udemy: Complete Python Developer in 2020: Zero to Mastery | Certificate Verification: [Credential Link](#)
- Hackerank: C++ (Basic) Certificate & SQL (Basic) Certificate | Certificate Verification: [Credential Link C++](#), [Credential Link SQL](#)