Oscar Colon Sanabria

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Summary: Highly motivated and detail-oriented Software Design Engineer in Test with experience in software development life cycle, Agile/Scrum methodology, API testing, BDD, DevOps, automation testing, and mobile app development. Strong technical skills in SQL, Databricks, Docker, Jupyter Notebook, and Java, as well as experience in data analysis and reporting using Tableau. A keen interest in Data Engineering, Cryptocurrency, Pen Test, and Software Development.

Education:
Ronald Reagan Highschool – IBCP (Computer Science)
Milwaukee, WI
08/2014 - 05/2017
- Graduated from Ronald Reagan High School, one of the top-ranked public high schools in Wisconsin and the nation.
- Participated in the International Baccalaureate Career Program, a rigorous four-year curriculum that prepares students for college-level courses and careers in computing.
- Enrolled in the Computer Science Career Program, which offered me advanced courses in programming, data structures, algorithms, and software engineering.

devCodeCamp - Bootcamp
Milwaukee, WI (Remote)
02/2021 - 06/2021
- Enrolled in a comprehensive training program that covered software development methodologies, software testing, database testing, API testing, BDD, DevOps concepts, automation testing, Java programming, and mobile app development.
- Acquired hands-on experience in software testing, defect management, database testing, API testing, BDD, DevOps concepts, automation testing, Java programming, and mobile app development.

Work Experience:
Software Developer for GalaxE.Solutions
Milwaukee, WI (Remote)
10/2021 – 06/2023
- Developed a deep understanding of different software development methodologies such as Waterfall, Agile/Scrum, Iterative, and Spiral, as well as Application Lifecycle Management tools like Jira.
- Acquired proficiency in software testing fundamentals, including test strategy, test design, test execution, defect management, and metrics tracking/reporting, along with database testing.
- Became skilled in API testing using Postman, leveraging global and environmental variables for better maintenance, creating automated tests with pre-scripts and post-scripts.
- Gained expertise in BDD with Cucumber/Gherkin, writing test cases as user stories, leveraging Gherkin to quickly generate automated tests in Cucumber, and understanding the 'role-feature-reason' matrix and the 'given-when-then' formula.

- Acquired proficiency in DevOps concepts and CI/CD introduction, understanding foundational concepts and the tools used, and automation testing using Selenium and Python.

Associate Data Engineer for client

Milwaukee, WI (Remote)

07/2022 – 06/2023

- Performed impact analysis for a client table decommission, documented artifacts, and successfully resolved technical issue as data engineer. Led analysis walkthrough and provided document link as per design/user stories.
- Developed and implemented a customized database view in DBeaver for a compliance team to access specific data for processing.
- Successfully delivered the solution to the client's Production Environment and ensured access for the compliance team, resulting in improved efficiency and accuracy in data processing.
- Worked with SQL Server Integration Services and utilized Databricks, Docker, Kafka, and Jupyter Notebook

COVID-19 Data Exploration and Visualization Junior Data Engineer

Milwaukee, WI (Remote)

10/2022

- Conducted thorough data exploration and cleaning using SQL to ensure accurate and reliable analysis of Covid-19 data.
- Created SQL queries to explore various aspects of the pandemic, including demographic factors and mitigation strategies, resulting in insights, and uncovering hidden patterns.
- Utilized Tableau to develop interactive charts and graphs, visualizing data to stakeholders and highlighting pandemic trends, leading to better understanding of the virus.

Technical Skills:

- Software Development and Testing: SDLC, Agile/Scrum, Waterfall, Iterative, Spiral, Jira, API testing, BDD, Cumber/Gherkin, Selenium, Python.
- Database Management: MySQL, PostgresSQL, Oracle Database, SQL, Relational Database Concepts.
- Data Analysis and Reporting: Tableau, Excel, SQL.
- Programming Languages: Java, JavaScript, Python, YAML.
- Cloud Management: Databricks, Docker, Kafka, Jupyter Notebook.
- DevOps: Foundational concepts, tool utilization.
- Mobile App Development: Android (Kotlin), iOS (Swift/Xcode), unit testing.

Key Interests:

- Scrum
- Cyber Security
- Cryptocurrency
- Data Exploration
- Project Management
- Machine Learning, AI, and Python Programming

Technical Skills:

- ❖ **SDLC / Agile Methodology**
  - ➢ Knowledge of various software development methodologies (Waterfall, Agile/Scrum, Iterative, Spiral)
  - ➢ Experience with Application Lifecycle Management tools (Jira)
- ❖ **QA Fundamentals**
  - ➢ Understanding of software testing, test strategy, test design, and test execution
  - ➢ Knowledge of defect management and metrics tracking/reporting
  - ➢ Database testing experience
- ❖ **API Testing with Postman**
  - ➢ Experience using global and environmental variables for better maintenance.
  - ➢ Ability to create automated tests with pre-scripts and post-scripts.

- ❖ **Java Basic (& advanced concepts introduction)**
  - ➢ Understanding of object-oriented programming concepts
  - ➢ Knowledge of data types, operators, loops, constructors, exception handling, Collections, and lists
- ❖ **Mobile App Development with Kotlin (Android) and Swift/Xcode (iOS)**
  - ➢ Experience building mobile apps for Android and iOS platforms.
  - ➢ Knowledge of unit testing using emulators/simulators
  - ➢ Experience working with third-party APIs to render dynamic data.

- ❖ **BDD with Cucumber / Gherkin**
  - ➢ Understanding of the 'role-feature-reason' matrix and the 'given-when-then' formula
  - ➢ Writing test cases as user stories
  - ➢ Ability to leverage Gherkin to quickly generate automated tests in Cucumber.
- ❖ **DevOps Concepts and CI / CD Introduction**
  - ➢ Knowledge of foundational concepts
  - ➢ Experience with DevOps tools
- ❖ **Automation Testing with Selenium and Python**
  - ➢ Knowledge of accessing web elements with unique HTML tags
  - ➢ Experience creating data-driven tests using Excel documents.
  - ➢ Ability to utilize web drivers to automate manual test

- ❖ **Data Analysis and Reporting**
  - ➢ Ability to analyze and report on data.
- ❖ **Visualization of Data using Tableau**
  - ➢ Experience with data visualization using Tableau.
- ❖ **Process Improvement Methodologies**
  - ➢ Knowledge of process improvement methodologies
- ❖ **Create and Manage Cloud Resources**
  - ➢ Ability to create and manage cloud resources.
- ❖ **Migrate MySQL data to Cloud SQL using Database Migration Service**
  - ➢ Experience migrating MySQL data to Cloud SQL using the Database Migration Service

Certifications / Trainings: • *O2A Training Curriculum: SDLC / Agile Methodology* • *API Testing with Postman* • *BDD with Cucumber / Gherkin* • *DevOps Concepts and CI/CD Introduction* • *Automation Testing with Selenium and Python* • *Java Basic and Advanced Concepts Introduction* • *Mobile App Development with Kotlin (Android) and Swift/Xcode (iOS)*

Core Skills:

- SQL Server Integration Services
- Databricks, Docker, Kafka, Jupyter Notebook
- MySQL, PostgreSQL, Oracle Database

- Excel, SQL, Relational Database Concepts, Tableau, Power BI
- Scripting and Programming: Java, JavaScript, Python, YAML

Impact Statement:

- Oscar is a data engineer who developed a database view as a technical solution to improving and supporting a compliance team's data processing. In particular, the solution involved generating and uploading a DDL script in DBeaver for the client's production environment. Using Jira, Oscar attached the DDL script to its correct data modeler. He granted the compliance team correct access for data security purposes. Furthermore, he has performed an impact analysis for a prospective client's decommissioned table. He has further supported clients in documenting and organizing artifacts needing to be removed and has uploaded changes to the client's public folder for future reference. During the demo session, Oscar presented the impact analysis and collaboratively shared insights via Jira access link.