

# LAUREL HU

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Over 3+ years of Software Engineer experience in the field of designing, maintenance and testing to cater to the specific needs of clients. I wish to work in a fast-paced environment and a team of motivated individuals who wish to work towards the advancement of the company and its goals.

## TECHNICAL SKILLS

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- Programming Skills: JAVA, C, C++, C#, Python and JavaScript.
- Framework: Django, Flask and Spring
- Cloud computing: AWS, IBM Cloud and Azure
- Testing: JUNIT
- Database: PostgreSQL and MsSQL
- CI/CD: Jenkins, Docker and Kubernetes
- Environment: Linux, Mac and Windows.
- Dev tools: Eclipse, IntelliJ and PyCharm

## PROFESSIONAL EXPERIENCE

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### BACK-END DEVELOPER, IBM SEPTEMBER 2019 – MAY 2021, 2021 – PRESENT

#### RESPONSIBILITIES:

- Maintained **Java** application to import data from sources to database, added functions and plugins based on current framework. Use **LOG4J** for debugging and **JUNIT** for testing.
- Used **Maven** and **Gradle** scripts for building and deploying the application.
- Developed and managed database using RDBMS concepts including **PostgreSQL**, **MSSQL** and experienced in writing SQL queries, PL/SQL, T-SQL, Stored procedures, prepared statements, and triggers.
- Developed and maintained automated CI/CD pipelines on **Git** for deployment using **Jenkins**.
- Built and deployed **Docker** containers to run the application and improve developer workflow, increase scalability, and optimize speed.
- Familiar with the **Agile** environment and experienced in **Scrum Master** role with proven track records of delivering work results.

#### ACHIEVEMENTS:

- Developed an Incremental import for Java application which reduces the run time for application from approximately 24 hours to 2 hours.
- Designed and implemented a new plug-in in Java which imports data from source through JDBC instead of API calls, the new plug-in eliminates the repeated entries and delays caused by API calls.

### BUSINESS CONSULTANT/IT SPECIALIST, IBM, JUNE 2021 – SEPTEMBER 2021

- Participated in developing web, mobile applications on cloud (Including **AWS**, **Azure**).
- Supported to develop new libraries with **Microservice** architecture using Rest APIs, Spring boot and pivotal cloud foundry.
- Wrote scripts to manage AWS resources from API calls and worked with AWS CLI.

## EDUCATION

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- **BACHELOR OF COMPUTER SCIENCE**, UNIVERSITY OF NEW BRUNSWICK, 2017-2020
- **BACHELOR OF FINANCE**, UNIVERSITY OF NEW BRUNSWICK, 2011-2015

## PERSONAL PROJECTS

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### CODING TOOL FOR NON-DEVELOPER, BLOCKLY

- Created a visual coding tool built in JavaScript by using Google's Blockly framework, the tool translates draggable and droppable blocks into Python code.
- Tested and documented all the steps for the tool and the tool is also extendable to generate JSON format definition and generator stubs to Python, JavaScript, PHP, Lua and Dart.

### GAME DATA WEBSITE

- Built a game data integration website using Python on **Django** framework which collects metadata from game companies through API calls.
- Implemented **MVC** architecture.
- Designed user interactive web pages using **HTML**, **JavaScript** and implemented CSS for better appearance.
- Deployed the website in **Docker** containers.
- Writing **Python** flask API for retrieving data.

### RPG GAME, SPACE ODYSSEY

- Developed a role-playing game with fully-fledged working interactive UI using **Unity** Canvas
- Wrote code for the action of player and non-player character in programming language **C#**.