

Jaissica Hora

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Available: July - Dec 2023

EDUCATION

Khoury College of Computer Sciences, Northeastern University, Boston, Massachusetts

Sept 2022 - Present

Master of Science in Computer Science

GPA: 4.00/4.00

Courses: Programming Design Paradigm, Algorithms, DBMS, Information Retrieval, Web Development

Chitkara Institute of Engineering & Technology, India

Aug 2016 - July 2020

Bachelor of Engineering (Computer Science and Engineering)

GPA: 9.38/10.00

Courses: OOPS, DS, SE, Databases, Web Dev, CN, OS, CSA, Artificial Intelligence, Cyber Security, Six Sigma

TECHNICAL SKILLS

Computer Languages: C, C++, C# CSS, HTML5, Java, JavaScript, PLSQL, Python, R, XML, PHP, T-SQL

Servers and Databases: SQL (MySQL, Oracle, PostgreSQL, Microsoft SQL Server, Toad), NoSQL (MongoDB, Elasticsearch)

Frameworks: AngularJS, Bootstrap, Django, Flask, Hibernate, JDBC, Junit, Node.js, React, Redux, PyTorch, Web Services

Development Technologies: Docker, Kibana, Power BI, Tableau, SAP Crystal reports, Excel VBA, AWS Cloud, Azure

Operating Systems: Windows, Linux, iOS, macOS, Bash, Kernel, Unix

Functional Skills: Software Engineer, Database Engineer, Full Stack Developer, Computer Architecture Engineer

WORK EXPERIENCE

Graduate Teaching Assistant, Northeastern University, Boston, MA

May 2023 - Present

- Assisting professor in class CS5800(Algorithm and Data Structures) with grading and providing feedback to over 195 students.
- Facilitating collaborative communication and providing problem-solving guidance to students through daily 2-hours of office hours.

Project Engineer, Ocwen Financial Solutions Pvt. Ltd, Bengaluru, India

Apr 2020 - Dec 2021

Automation and Database Integration (Python, R, Visual Basic, PL/SQL)

- Automated deal onboarding system by gathering client requirements, scraping data from website using Python, VBA for report generation and creating PL/SQL objects. Boarded 28 deals in 4 months, eliminating manual intervention from future reporting.
- Built dashboards and reports with data visualization tools Power BI, Tableau & SAP crystal reports, facilitating data driven decisions.

Web Scraping and Automated Data Retrieval (Python, JavaScript, PL/SQL, XML)

- Automated daily fund transfer by utilizing APIs to extract data from the Client's portal & Python-based web scraping techniques.
- Executed fund transfer approval process using R, eliminating 3 daily man-hours for a team of 5 and reducing human errors by 97%.

Project Engineer Intern, Ocwen Financial Solutions Pvt. Ltd, Bengaluru, India

Apr 2019 – Apr 2020

Oracle Database Administration & Maintenance (Oracle DBMS, MS SQL Server)

- Successful migration projects of Oracle databases from existing system to new company systems (PHH), by setting up new database, data mapping and schema conversion benefitting the company's total revenue by approximately 7%.
- Creation, maintenance, and testing of stored procedures and packages, triggers, functions, views and ETL workflow.
- Bulk upload functionality managed through shell scripts, invoking SQL using Oracle 11g and SQL Developer, MS SQL Server.

PROJECTS

Tuiter Web App (HTML, CSS, Bootstrap, JavaScript (ES6), JSON, React, Redux, Node, MongoDB) ☞

May 2023 - June 2023

- Front-end Development: Used HTML, CSS, Bootstrap & JavaScript (ES6) to create the structure, visual design, and interactivity.
- Back-end Development & Data Management: Utilized Node.js as the backend server & MongoDB as the database to handle server-side logic, process requests & store user information. Implemented JSON for structured data exchange, Redux for state management and react for efficient rendering & component-based frontend development.

Search Engine & Web Crawler (Python, Elasticsearch, Kibana, Streamlit, Machine learning) ☞

Jan 2023 - Mar 2023

- Developed web crawling and search engine system in Python that utilizes advanced machine learning retrieval models, including Okapi TF, Okapi BM25, LML and LMJM smoothing models.
- Optimized web page indexing and ranking for vertical search engine by implementing preprocessing techniques such as stemming, tokenizing and stop words removal, along with integrating the HTS and SALSA algorithms to enhance search.

Stock Market Simulator (Java, Java Swing, MVC, Object Oriented Design Patterns, JUnit) ☞

Oct 2022 – Dec 2022

- Created stock market simulator using Alpha Vantage API's real-time prices enabling users to create portfolios, trade, and apply strategies, following SOLID Principles and MVC architecture.
- Used agile & test-driven development. Portfolio's performance over time was shown on graph achieving 94% test coverage.

AWARDS & RECOGNITION

- Received 13 SPOT (Employee Recognition) awards & Employee of the Month award at Ocwen for extraordinary performance.
- Participated in 3-day workshop on Python by Robosapiens Technologies Pvt. Ltd. at IIT, Delhi in 2017.
- Successfully completed 2-day workshop Raspberry Pi-IoT and 5-day workshop Make Your Computer Speak by Chikara University.