

Jaissica Hora

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EDUCATION

Master of Science in Computer Science

Northeastern University, Boston, MA

Sept'22 – Dec'24

GPA: 3.95/4.00

Courses: Program Design Paradigm, Algorithms, Database Systems, Information Retrieval, Web Dev, Distributed Systems

Bachelor of Engineering in Computer Science

Chitkara University, Punjab, India

Aug'16 – July'20

GPA: 9.38/10.00

Courses: Operating Systems, Software Engineering, Computer Systems Architecture, Web development

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML, CSS, C++, C
Servers & Databases: SQL- MySQL, Oracle, PostgreSQL, PL/SQL; NoSQL- MongoDB, Elasticsearch
Frameworks: React, Node.js, NuxtJS, VueJS, Flask, Redux, Django, Express, Bootstrap, JUnit
Development Tools: Docker, Kibana, AWS Cloud Services, Postman, Git, Storyblok, VWO A/B testing, DataDog

PROFESSIONAL EXPERIENCE

Software Engineer Intern, EnergySage, Boston, MA (Schneider Electric)

Jan'24 – Aug'24

- Revamped **Django-powered** electricity cost **API endpoints** with **caching using Celery**, **advance sanity checks** thus elevating data accuracy of **cost evaluation in 50 states from 72% to 100% and achieving 60% reduction in latency**.
- Elevated Design System to a robust suite of brand-driven tokens and components, **facilitating rapid UI development across all teams** while ensuring consistent styling across all microservices using this library. (design.energysage.dev)
- Led transition of **Vue2/Nuxt2 to Vue3/Nuxt3**, **CDK updates**, and migrated from **Bootstrap to PrimeVue** through detailed POCs.
- Redesigned [Rebates Incentives page](#) with **Nuxt /Vue**, driving **10,000 leads/year**, boosting revenue by **\$550,000** and enhancing SEO.

Ocwen Financial Solutions APAC, India

Project Engineer

Apr'20 – Dec'21

- Automation of Deal Onboarding System: Integrated new client(s) into existing system using **web scraping through API calls & data mining techniques** facilitating data-driven decisions, boarding **28 US-based** deals in **4 months** saving up to **15% manhours**.
- Net Fund Calculator: Developed dynamic software to consolidate and streamline inconsistencies in inter-departmental manual calculations using **Python, VBA and XML** for daily cashflow delivering **100% efficacy & eliminated ~3 man-hours daily**.

Project Engineer Intern

Apr'19 – Apr'20

- Migration Project: Successfully migrated Oracle databases to new company's systems (PHH), by setting up new database, data mapping, schema conversion, dashboard compatibility and **ETL workflow, increasing revenue by 7%**.

ACADEMIC PROJECTS

Distributed Key Value Store, [BSDS](#)

Sept'23 – Dec'23

- Supported **UDP & TCP** communication protocols, allowing scalable distributed client-server interaction with **98% success rate**.
- Enhanced server efficiency with multi-threading & implemented mutual exclusion for concurrent client requests ensuring seamless **server interoperability through RPC** & efficient retrieval throughput up to **10,000** key-value pairs with an average latency of **5 ms**.

Tuiter- Twitter Replica, [Web-Dev](#)

May'23 – Jun'23

- Developed structure, visual design, and interactive front end using **JavaScript**, **React** components, and **REST APIs**.
- Implemented backend using **Node.js**, focusing on session management using **Redux**, and platform security. Integrated **MongoDB** for efficiently storing & retrieving user information. Utilized **ESlint** for code quality testing & **Cypress** for **100%** application testing.

Search Engine and Web Crawler, [IR](#)

Jan'23 – Apr'23

- Developed **Python** application utilizing **ElasticSearch** and **Kibana** to achieve rapid document retrieval within **100ms** integrating advanced storing methods. Implemented stop words filtering, resulting **32%** accuracy enhancement for search engine.
- Optimized web page index, ranking for vertical searches, integrating **HITS/ SALSA algorithms**, and utilizing **ranking & smoothing models**, **Okapi TF/Okapi BM25**, **LML/LMJM**, thus efficiently processing dataset of **40,000** documents.

Stock Market Simulator, [PDP](#)

Oct'22 – Dec'22

- Built user-friendly platform in **Java** following **MVC** architecture, leveraging **AlphaVantage API** to provide real-time stock prices. The platform facilitates portfolio creation, stock trading by utilizing investment strategies, retrieval of portfolio value and composition, and generating investment reports.
- Visualized performance of portfolio over time and utilized **Junit** framework to ensure **97%** code coverage and platform reliability.