AYUSHI **JHA**

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SKILLS

Python, C, C++, JavaScript, HTML, CSS, Flask, React JS, Node JS, Express, Spring Boot, PySpark, Pandas, SQL

EDUCATION

University of Southern California *MS Computer Science – GPA - 3.77* Jun '19 – Dec '20

Analysis of Algorithms, Natural Language Processing, Foundations of Artificial Intelligence, Information Retrieval & Search Engines, Web Technologies

Indira Gandhi Delhi Technical University for Women *B. Tech. CSE – CPI - 82.31%* Aug '13 – Jun '17

Data Structures, Analysis and Design of Algorithms, Operating Systems, Computer Architecture, Artificial Intelligence, Software Engineering, Database Management Systems

EXPERIENCE

Software Developer, Intuit *Kafka, Java, Spring Boot* Feb '21 – Present

Software Developer Intern, Intuit *Python, Hive, React, Spring Boot* May '20 – Aug '20

- Developed a Machine Learning Model (Random Forest Classifier) for calculating propensity scores (probability to clickthrough and opt-out of email campaigns) for customers and leads. Implemented the ETL for stream data using PySpark. Deployed the model on AWS EMR clusters.
- Created a dashboard to visualize the success metrics of the model and comparison of predicted data against real-time data for presentation to marketers.
- Developed features for database interface tool for marketers to help them easily add new data and view relationships between existing data using simple UI. Created frontend in React and backend apis for connectivity with database using Spring Boot.

Software Engineer, Intuit *C, C++, C#* Aug '17 – May '19

- Eliminated customer pain by adding highly requested features and critical bug fixes in Quickbooks Desktop, the flagship product used by 2m+ users.
- Enabled users to combine multiple forms from different domains into one email grouped by each recipient type and name instead of separately sending one attachment per email in Quickbooks Desktop 2020.
- Revamped Reports UI (showing financial reports and budget accounting summaries for user's business) for better navigation and added more customization options in Quickbooks Desktop 2020.

Classroom Mentor & Reviewer, Udacity *Python, NLTK* Apr '17 – May '19

- Mentored more than 100 students enrolled in several Nanodegrees including Artificial Intelligence, Natural Language Processing and Computer Vision Specializations.
- Reviewed 300+ project submissions from students in Artificial Intelligence Nanodegree and its specializations by providing code review and constructive feedback on subjective assignments.

Software Developer Intern, Intuit *Javascript, Dojo, C#* Jun '16 – Jul '16

- Fixed critical issue in payments section of Quickbooks Desktop by upgrading legacy code to use the latest version of Dojo, a Javascript framework used for asynchronous event handling and dialog system.

PROJECTS

Data Science Worked on collaborative project "Gender Inclusion in Science" for USC GRIDS Data Science organization where we analyzed academic research data from American Physical Society to extract trends on the role of institutions in nurturing a growth environment for female researchers.

Search Engines Developed a basic search engine featuring autocomplete and spelling correction using Solr engine with Lucene and Page Rank algorithms, Networkx and Jsoup libraries, deployed using AWS and GCP.

Web and Mobile Technologies Created a news reader app using Python Flask and Javascript. Similar app recreated in Node JS and React deployed on AWS, as well as native Android app. Implemented a browser-based text editor with minimalistic design for NaNoWriMo using ReactJS and DraftJS - https://ayushi-jha.github.io/Rich_text-Editor/

Undergraduate Research Published research paper - *Improving Network Lifetime and Area Coverage with Optimal Sink Mobility Pattern and Node Deployment Strategy in WSN*, 2018 12th International Conference on Signal Processing and Communication Systems (ICSPCS), December, 2018, Cairns, Australia, Link: https://ieeexplore.ieee.org/document/8631712