Chirag Jain

3000 Kings Court, Apt - A, Raleigh, North Carolina – 27606.

csjain@ncsu.edu ♦ +1 (919) 884-1081 ♦ jainchirag.com
linkedin.com/in/chiragjain92 ♦ github.com/cj8664

EDUCATION

North Carolina State University, Raleigh (Master of Computer Science) — December 2018

Coursework: *Design and Analysis of Algorithm, Database Management System, Object-Oriented Design and Development*

University of Mumbai, D.J. Sanghvi College of Engineering (Bachelor of Computer Engineering) — May 2014

Coursework: *Artificial Intelligence, Advanced Database Systems, Algorithm Analysis, Data Mining and Machine Learning.* GPA: 3.7

PROFESSIONAL EXPERIENCE

JPMorgan Chase & Co. (Associate) — July 2014-July 2017

- **Led a team** to deliver an **Informatica** project that centralized Market Data and **reduced time** for analytics by hours.
- **Reduced process's total run-time** from days to hours by creating necessary partitions, Indexes and batches in SQL.
- Developed **ETL** processes using **Python, Shell script, Java and HP-Vertica** to load Mortgage related performance data and performed analytics on this data to calculate patterns and reports for trade execution and prediction models.
- Acted as the **Release Manager** and designed **Automated deployment system** to assure quality code, testing and security.

Pratham Education Foundation (Technical Lead) — August 2016- August 2017

- Leveraged **"Joget Tool", Java and Microsoft Azure** to create a web and mobile-ready, **Cloud**-based HR and Expense Management that helped the NGO in automating their manual tasks and scaling-up operations with a projected **savings of $150,000 per year**.
- Designed and co-implemented **Selenium test-suite** to facilitate sustainable development for the NGO.

ShipEasy (Co-Developer) — September 2013- September 2014

- Developed an SEO optimized responsive online web portal using **PHP, Bootstrap, and JavaScript**. Incorporated **Google Maps API** to generate shipment quotation using distance, cargo and other metrics. Also, designed a rule-based reminder system.

SKILLS AND TECHNOLOGIES

- **Languages: Python** (proficient), **Java** (proficient), C# and Shell Script.
- **Databases:** MySQL, MS-SQL and HP-Vertica.
- **Web Technologies:** HTML, jQuery, PHP, JavaScript, and CSS.
- **Software:** SQL Server Management Studio, Business Intelligence Development Studio, Informatica, Git, Vim and Eclipse.

PROJECTS

- **Capstone: Retrieving, Processing, and Visualizing Data** from Michigan University:
  Developed a search engine index using **web-crawler** and **"Page-rank" algorithm** written in **Python**. Mapped and cleaned an email dataset to analyze various dimension like sender's domain, word frequency, email count. Visualized the inbound/outbound links in form of connected graphs and histograms using D3.js library.

- **Machine Learning** from Stanford University:
  Implemented **Clustering**, **Classification, Recommender systems using Regression** and **Neural-Networks** Machine Learning Algorithms in **Octave**.

- **Optimization of Traveling Salesman Problem using Neural Networks:**
  Implemented a hybrid approach that comprises an **Adaptive Neuro-Fuzzy Inference System** and **Simulated Annealing** algorithm to determines the path based on distance and other factors like profit. **Published journal articles in IJCSE** about the theory and implementation of this project.

- **Data Warehouse and Mining Tool with ETL:**
  Performed extraction of data from different file formats, data cleaning and loading the consolidated data into MS-Access database. Implemented various **Data Mining** algorithms like **Naïve Bayes, K-Nearest Neighbors and Hierarchical Clustering** on the consolidated data using **Java**.

ACHIEVEMENTS AND EXTRACURRICULARS

- **Winner of 'Code for Good Challenge' Hackathon** organized by JP Morgan Chase & Co.: Developed a cross-platform mobile web application and IVR/SMS system for "Teach for India", targeting to resolve their operational problems of tracking attendance, of their fellows and students.
- **Voluntary Service, 'Force for Good' Ambassador and Judge:** Participated in philanthropic initiatives and developed technology solutions for partner NGOs. Counseled the NGOs on various automation opportunities.
- **Campus-Recruitment Coordinator** for Computer Engineering department: Operated as a channel of communication between students, recruitment cell and the company representatives.