SHUBHAM KUMAR JAIN

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EDUCATION

Stony Brook University, New York   **Aug 2017 - Dec 2018 (Expected)**
Master of Science, Computer Science w/ **GPA: 3.33/4.0**
- Big Data Analytics, Analysis of Algorithms, Theory of Database Systems, Simulation & Modelling

Jaypee Institute of Information Technology, Sector-62, Noida, India   **Aug 2013 - May 2017**
Bachelor of Technology (B.Tech.) with Honours, Computer Science w/ **GPA: 8.0/10.0**
- Machine Learning and Big Data Analytics, Data Warehouse and Business Intelligence, Combinatorics

TECHNICAL SKILLS

- **Languages:** C, C++, Python, Spark, Java, HTML, CSS, JavaScript, XML, XQuery, PHP, SQL
- **Libraries:** STL, PySpark, SciPy, scikit-learn, TensorFlow, NumPy, Pandas, NLTK
- **Database Management Systems:** MySQL, MongoDB, PostgreSQL, Flora
- **Graphic/UI Design:** Adobe Photoshop, Adobe Illustrator

WORK EXPERIENCE

UI/UX Development Intern | *Boiban-it, Noida, India*   **Dec 2015 - Jan 2016**
- Designed and developed the user interface of the Android application on Java and XML.
- Used MongoDB to store the database for the restaurants and their orders in the form of JSON documents.
- Developed UI of the website using HTML, CSS (w/ Bootstrap) and JavaScript. Used carousels, modal windows and made the website responsive, device and browser compatible.

Co-founder & Head, Design | *D'mensio, Delhi, India*   **Nov 2014 - Nov 2015**
- Co-founded a digital media startup that aimed to digitalize a organization's presence by developing websites and other merchandises.
- Developed the company's website using HTML, CSS and JavaScript. Designed brand logos on Adobe Illustrator.
- Managed the designing team which handled the concept design and the development of the websites from ground up.
- Delivered 7+ clients over local and national regions. Sponsored Jaypee Model United Nations'15 as digital media partner.

CERTIFICATIONS

- **Python for Data Science and Machine Learning Bootcamp, Udemy** | *License UC-DE4Z0TP1*   **Jul 2017**
- **Machine Learning A-Z™: Hands-On Python & R In Data Science, Udemy** | *License UC-8WP3YF2P*   **Jul 2017**
- **Deep Learning A-Z™: Hands-On Artificial Neural Networks, Udemy** | *License UC-5T8Z4XOY*   **Jul 2017**
- **Introduction to Python for Data Science (edX) Course, edX** | *License 3390138*   **Jul 2017**

PROJECTS (GitHub: github.com/shubhamjain2706)

Zero Hunger - Sustainable Development Goal 2 | Nov 2017 - Dec 2017 | Python
- Scraped data from twitter and applied Bloom filter with 5% error probability while streaming.
- Performed data cleaning and normalization on 5GB of data in Spark RDDs.
- Applied Ridge regression using TensorFlow to predict future trends, and visualized data using Pandas DataFrames and choropleth maps.

Finding similarity in satellite imagery | Nov 2017 | Python
- Processed different images and converted them to feature vectors using NumPy and Spark RDDs.
- Implemented Locality Sensitive Hashing to find the similar candidates by tweaking the number of rows, bands of the signature matrix.
- Applied dimensionality reduction using PCA to reduce the number of features and calculated euclidean distance to find most similar images.

Web of Company Ownership | Sep 2017 - Nov 2017 | Flora, PostgreSQL, JSP, XML, XQuery
- Created and managed database of a company and its people on Flora, PostgreSQL and XML.
- Implemented queries involving recursion and quantifiers on Flora, JSP and XQuery to fetch and display data accordingly.

Multi-Agent Programming | Jan 2017 - May 2017 | Java, 2APL
- Built on the basic idea of Artifical Intelligence, where an agent reacts with its environment to perform some actions and achieve its goals.
- Solved the famous N-Queen Problem using existing algorithms where each queen acted as an agent & the chess board as the environment.
- Created the application in Java while coded the algorithms in 2APL (A Practical Agent Programming Language), which uses the BDI Model.

Stock Market Price Analysis | Aug 2016 - Dec 2016 | HTML, CSS, PHP
- Gathered the stock prices of 5 major IT firms, and analyzed the data using Regression analysis, Bollinger band and Holt-Winters algorithms.
- Calculated the ongoing trend and helped in buying/selling of stocks.
- Used HighCharts to present the current and predicted trends graphically.

Data Analysis & Encryption Transfer System (D.A.R.T.S) | Jan 2016 - May 2016 | Python
- Implemented 5 different algorithms namely, RSA, AES, DES, Image Steganography and a self made algorithm to encrypt and securely transfer files of 5 different formats (.txt, .pdf, .doc, .jpg and .png) over a network.

2048 | Nov 2014 | C
- Based on simple prinicipal of addition, devised the game on C using multi-linked lists, graphics and mouse programming.

EXTRA CURRICULARS

- **Volunteer & Graphic Designer** | *Rotaract Club of South Delhi, and Khwahishein Foundation (NGOs), Delhi, India*
- **Freelance Content Writer** | *Icy Tales, Kolkata, India*
- **Under-Secretary General Design** | *Jaypee Model United Nations, Noida, India*
- **Team Member** | *Google Developers Groups JIIT, and Jaypee Official Social Media Marketing Team, Noida, India*