

Shashank Shashikant Rao

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EDUCATION

M.S IN DATA SCIENCE

COLUMBIA UNIVERSITY

2016-2017 (Expected) | New York, NY

B.E IN COMPUTER SCIENCE

R.V. COLLEGE OF ENGINEERING

2010-2014 | Bangalore, India

9th rank in branch

Top 1% of overall class of 2014

CGPA: 9.64 / 10.0 (3.99 / 4.0)

COURSEWORK

GRADUATE COURSES

Algorithms for Data Science • Statistical Inference and Modelling • Probability • Storytelling with Data (D3.js Visualization)

Upcoming Core Courses

Machine Learning • Exploratory Data Analysis • Computer Systems for Data Science

UNDERGRADUATE COURSES

Data Structures • Analysis of Algorithms • Advanced Algorithms • Data Mining and Warehousing • Applied Mathematics • Cloud Computing • Database Management • Web Programming • Principles of Management

ONLINE COURSES

Udacity

Building a Search Engine (CS101)

Coursera

Machine Learning • Algorithms: Design and Analysis, Part 1 (Stanford University)

Coursera - Data Science Specialization

Data Scientist's Toolbox • R Programming (Johns Hopkins University)

SKILLS

Programming: C • C++ • Python • Java • C# • Shell scripting

Big Data: Hadoop • HBase • Elasticsearch

Web: Javascript • Bootstrap • NodeJS • D3 • PHP • MySQL

Markup: HTML • \LaTeX

Version Control: git • Perforce

ACTIVITIES

Member Columbia DS Student Council
Winner Citrix Shiplt Hackweek 2014
Winner Citrix New-Hire Hackweek 2014
Winner Hack59 2014, Yodlee Inc.
44th/250+ ACM ICPC 2012

WORK EXPERIENCE

COLUMBIA BUSINESS SCHOOL | PROJECT ASSISTANT

Sep 2016 - Present | New York, NY

- Building **data scraping systems** to digest data from online press releases and 10-k statements to strategically identify winning stocks.

CITRIX RESEARCH AND DEVELOPMENT | SOFTWARE ENGINEER 2

Jul 2014 - Jul 2016 | Bangalore, India

- Incorporated remote file access features for the *ShareConnect SaaS* application.
- Conceptualized a multi-process architecture to enable multi-user remote access.
- Designed the specification for an in-house C++ SDK for **Google Analytics**.

PAYPAL | SOFTWARE INTERN

Jan 2014 - Jun 2014 | Bangalore, India

- Engineered a scalable big-data framework using **Apache HBase** as the distributed data store to process **terabytes** of click-stream data in near-real time.
- Optimized the system using **Elasticsearch** inverted indexing and caching improving performance by **200%** with sub-second response times.
- Built a visualization dashboard using the **D3 platform** that displayed data from the druid data-store for internal exploratory analytics.
- The complete OLAP framework was presented by the *Senior-Director of Engineering*, at the **Strata + Hadoop World Conference on Big Data 2014**, at New York, NY.

INDIA INNOVATION LABS | INTERN

Jun 2012 - Aug 2012 | Bangalore, India

- Consolidated and fused data points from multiple **Microsoft Kinect** devices for an augmented-mixed reality platform.

PROJECTS

SMART OFFICES | CITRIX INDIA HACKWEEK (2015)

- Architected an Internet-Of-Things platform with a **MongoDB** and **NodeJS** backend to use BluetoothLE beacons for smart workplaces.

INTELLIGENT PERSONAL FINANCE | HACK59 HACKATHON (2014)

- Designed a web-based framework in **MySQL** and **PHP** that allowed shared expense management and bill tracking with a **D3** visual dashboard.

PLAGIARISM DETECTION | DATA MINING PROJECT (2013)

- Developed a system in **Python** to find duplicate text using distance-measures in pdf, text and word documents.

TVSHOW INDEXING | INDEPENDENT GROUP PROJECT (2012)

- Implemented a **Python-based indexing system** to search for shows and upcoming events on TV.

EXTRA CURRICULAR

INDIAN INSTITUTE OF SCIENCE (IISc) | SUMMER SCHOOL

Jun 2013 | Bangalore, India

- Attended multiple lectures and hands-on sessions on Data Mining, Big Data and Machine Learning at the **Computer Science and Automation** Department.

MICROSOFT RESEARCH LABS | PRE-FIRE 2013

Jun 2013 | Bangalore, India

- Implemented corpus pre-processing, stemming and ranking models for a complete information retrieval system at the forum organized by the **Information Retrieval Society of India (IRSI)**.