

PRANAV JAIN

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**OBJECTIVE** Seeking a full-time position with a well-respected IT firm which would help me progress my career and at the same time utilize my programming skills and the discipline and focus that I bring to my work.

## **EDUCATION**

**MS Masters in COMPUTER SCIENCE, State University of New York at Buffalo, New York (GPA 3.543) Expected Jan-2017**

**Coursework:** Fall 2015: Analysis of Algorithms, Information Retrieval, Distributed Systems, Computer Security.  
Spring 2016: Operating Systems, Machine Learning, Applied Cryptography and Computer Security.  
Summer 2016: Database Systems

**BS Bachelors in COMPUTER ENGINEERING, Pune University, India May-2013**

**Coursework:** Object Oriented Programming in C++ and Java, Data Structures, Analysis of Algorithms, Database Systems, Theory of Computation, Computer Networks, Computer Security, Computer Graphics, Computer Organization, Digital Signal Processing, Computer Networks, Software Engineering, Data Communication, Principles of Programming Languages, Artificial Intelligence, Principles of Compiler Design.

## **COMPUTER SKILLS**

**LANGUAGES:** C, C++, Python, Java, HTML/CSS, COBOL, JCL, PlusCal

**DATABASES:** DB2, MySQL

**SOFTWARE PACKAGES:** Eclipse IDE, MS Visual Basic, Visual C++, TLA+

**OPERATING SYSTEMS:** Windows, Linux, Z/OS

## **MASTERS PROJECTS**

**Sep-2015 to July-2016**

- Created an SQL parser and database management system from scratch in the Database Systems course. (Language: Java)
- Obtained a **perfect score** in the complicated Operating Systems assignments: Implementing Synchronization Primitives, System Calls, and Virtual Memory support for OS161. Leaderboard link: <https://test161.ops-class.org/leaders>. (Language: C)
- Handwritten digits recognition using Neural Network, Classification and Regression Comparison, and Comparison between Logistic Regression and SVM as part of the Machine Learning course. (Language: Python)
- Developed a multilingual Information Retrieval System on Apache Solr that enabled searching data across 5 different languages and included components like content tagging, faceted search, cross-document analysis (sentiment analysis) and summarization.
- Model checking Dijkstra's token ring and Hybrid Vector clock algorithms on TLA+ tool using PlusCal code.
- Web Security and Symmetric Key Crypto Implementation; E-mail forensics with DKIM; Evaluation of Privacy in DNS Private Exchange as part of Computer Security courses.

## **WORK EXPERIENCE**

**Application Developer**

**BNY MELLON (INAUTIX TECHNOLOGIES), Pune, India**

**Sep-2013 to June-2015**

- Developed projects in accordance with SDLC in Mainframe Technologies including COBOL, JCL, CICS, VSAM and DB2.
- Worked for the Entitlement Management team for Pershing LLC's NetX360 platform.
- Hands-on experience in planning, requirements definition, analysis, design, testing and deployment.

## **BACHELORS PROJECTS**

**Jan-2012 to April-2013**

- Designed and developed an Android app having random and unique session based authentication password scheme using text and colors. Stronger than traditional authentication schemes and resistant to various attacks including brute force, guessing, shoulder surfing and dictionary attacks. (ENVIRONMENT: Java, ADT, Android)
- Developed a statistics management system that enabled managers to direct their teams on the portal and allowed fans to view different match related statistics. (ENVIRONMENT: C#, .NET, MS-Access)

## **PERSONAL**

- Languages: Fluent in English, Hindi, and Marathi
- Led the college tennis team to victory at 2 national level inter-college lawn tennis tournaments (2013). Part of the team that won the Pune University rural zone tournament organized by Pune University (2009 and 2010).
- Volunteered to raise funds for NGO for educating underprivileged children through charity drives in the office and field trips to orphanages, as part of Bank of New York Mellon's Community Partnership Campaign.