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PRATYUSH BAGARIA

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EDUCATION

Chicago, IL	**University of Illinois at Chicago**	**August 2017 – May 2019**

- Master of Science in Computer Science

Jaipur, India	**Global Institute of Technology**	**September 2010 – June 2014**

- B. Tech in Computer Science & Engineering

TECHNICAL SKILLS

- <u>Languages & Tools:</u> C; C++; Java; Maven; Gradle; SBT; JUnit; JavAssist; Python; NLTK; SciKit-Learn; SQL; PL/SQL; JavaScript; AngularJS; PHP; XML; MySQL; Oracle; IntelliJ; JIRA; Git; AWS;
- <u>Domain Knowledge:</u> Data Structures & Algorithms; Object-Oriented Programming; Relational Databases; Artificial Intelligence; Machine Learning; Neural Networks; Data Mining; Web Development;

WORK EXPERIENCE

Software Engineer	**Tech Mahindra Limited, India**	**June 2014 – July 2017**

- Developed XML based test scripts for AT&T & T-Mobile network operators as per their requirements and based on 3GPP & IoT standards. Troubleshoot simulator software issues for both Noida & New Jersey (remotely) Labs. Reduced simulator down time by over 65% & decreased dependency on simulator providing company.
- Awards – 'Bravo' (twice) & 'Pat on Back' for remarkable contribution to the department.

Software Engineer	**Tech Mahindra Limited, Europe**	**June 2016 – August 2016**

- Log analysis, protocol performance debugging and to provide inputs for better & alternate solutions for new versions of non-commercial/debug firmware to Apple Inc. & Huawei Technologies. Gained hands-on experience working with JIRA & Apple Bug Reporter tools as well.
- Won "Pat on Back" award for successful completion of the project with client appreciation.

Software Engineer, Intern	**Rance Computer Pvt. Ltd., India**	**June 2013 – July 2013**

- Summer Internship on HTML, CSS, JavaScript and PHP
- Designed website of Micamac Incorporation (http://micamac.com) as final project of the internship program.

PROJECTS

- Rideshare (2018) - Implemented a Rideshare model to maximize the savings in total distance travelled while considering rider's social preference. *Python 3.4, MySQL, GraphHopper Directions API*
- Aspect Based Sentiment Analysis (2018) - Implemented pre-processing steps viz. Lemmatization, POS Tagging, etc. Analyzed performance of various classifiers & generated results via 10-fold cross validation. *Python 3.6*
- Data Visualization Web App (2018) - A web application to visualize the dataset which comprises of all the oil and gas wells in New York. Interactive graphs and charts are made available along with a range of filters to choose from to visualize them. *Python 3.6, Dash, Flask, Plotly, Mapbox*
- UC Berkeley's AI based Pac-Man Projects (2018) - Array of techniques is implemented such as Informed state-space search, probabilistic inference, reinforcement learning, MDP & HMM to playing Pac-Man. *Python 2.7*
- Random Java Program Generator (2017) - A generator program that creates a syntactically correct but semantically meaningless random Java program on every run. The input to the generator program is a configuration file that defines various parameters that constrain the generation of the Java program. *Java 7*
- SMS based Wireless Security System (2013) - A 2-layer security system to grant/reject a person's entry in secured area whenever a request is made from any geographic location in form of SMS. *Embedded C*
- Gmail User Agent (2012) - A desktop application, like MS Outlook, which allows users to access and manage his/her e-mails in the mailbox. *J2EE, MySQL*
- Contact Management System (2011) - A computer application which provides the facility to store details of employees, vendors and clients associated with an organization. *J2EE & SQL Server Management Studio 2008*

ADDITIONAL INFORMATION

- Worked with Human Rights Council of India, an N.G.O. located in Kolkata, India, as a Program Associate for three years improving computer literacy in public schools and orphanages.
- Co-Ordinated Annual Technical Symposium & National Level Sports Meet of Global Institute of Technology. Developed excel-based analytical tool for expense management resulting in 38% reduction in man-hours consumed to track & analyze expenses.