MANISH PATIL

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EDUCATION

Northeastern University, Boston, MA
College of Computer and Information Science   GPA: 3.67/4.00   Sept. 2017- Present
Candidate for a Master of Science in Computer Science   Expected graduation: Dec. 2019
Relevant Courses: Algorithms, Programming Design Paradigms, Web Development,
          Foundations of Artificial Intelligence.
Ramrao Adik Institute of Technology, Bombay, India   July 2013- June 2017
Bachelor of Engineering in Information Technology
Relevant Courses: Data Structures and Algorithm Analysis, Advanced Database Management Systems,
          Web Technology, Big Data Analytics, Cloud Computing.

TECHNICAL SKILLS

Languages:	C, Elixir, Java, JavaScript, Python, PHP, Racket, SQL.
Frameworks and Libraries:	jQuery, Phoenix Framework, React JS, Redux, Swing Framework.
Tools:	Android Studio, Adobe Dreamweaver.
Operating Systems:	Linux (Ubuntu), Windows.
Database Management Systems:	MySQL, PostgreSQL, SQLite.

WORK EXPERIENCE

Kotak Mahindra Bank Ltd, Bombay, India   March 2016- April 2016
 Network Engineering Intern
 • Successfully collaborated with the team to migrate the existing bank server to "EMC VMAX 40K" storage solution to cope up with the rapid growth in the bank's data storage requirements.

ACADEMIC PROJECTS

Northeastern University, Boston, MA, USA.
 The Stock Market Game Web Application   Jan. 2018- Present
 • Designed an online multiplayer game where users can compete with one another by trading stocks.
 • Developed the game using stack- React JS, Elixir with Phoenix framework and database PostgreSQL.
 Connect4 AI   Sept. 2017- Dec. 2017
 • Developed multiple Artificially Intelligent agents for the game 'Connect4' in Python which uses the strategy-minimax with a strong heuristic evaluation function to solve the game.
 • Implemented a strong heuristic function which can beat most connect4 online agents with higher depth searches.
 • Improved the time efficiency of algorithm by using alpha-beta pruning and state caching technique.

Ramrao Adik Institute of Technology, Bombay, India.
 ORUTA: Data security in Cloud   June 2016- June 2017
 • Implemented an efficient public auditing mechanism "ORUTA" in JAVA, which checks the integrity of shared data in a group of users over a cloud, without revealing the identity of data owner and preserving data confidentiality.
 • Designed the User Interface using SWINGS Framework and successfully implemented the application over cloud using Dropbox's API with OAuth2 authentication.
 • Published a paper 'ORUTA: Privacy Preserving Public Auditing for Shared Data in the Cloud' in International Journal of Scientific and Engineering Research, 2017.
 Website "Bombay Tour"   Jan 2016- March 2016
 • Designed the client-side components using HTML, CSS3, JavaScript and jQuery.
 • Implemented the server-side logic in PHP using DB MySQL, which included facility to subscribe for new articles, log in, add new articles, and to comment on the existing articles.