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Shanu Gandhi

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Education

The University of Iowa   **Iowa City, IA**   **Aug 2015 – May 2017**
- **M.S | Computer Science, subtrack: Software Engineering, GPA: 3.6**
- **Scholarship:** 100% Scholarship provided for M.S studies by the University.
- **Coursework:** Design and Analysis of Algorithms, Machine learning, Mobile Computing, Human Computer Interaction, Software Engineering Languages and tools, iOS app development, Formal methods in software engineering.
- **Teaching Assitant:** Taught Python to more than 125 students as a TA for "Fundamentals of Comp Science" and 'Intro to Comp science'.

University of Pune   **Pune, India**   **Aug 2011 – May 2015**
- **B.Eng | Computer Engineering, First Class**
- **Coursework:** Artificial Intelligence, Computer Networks, Operating Systems, Advance Database Systems.
- Published a paper under Machine Learning

Employment

Java Developer Intern   **Pearson-Vue, Minneapolis, MN**   **May 2016 – August 2016**
- Built Automation testing suite for Service Direct - A customized Salesforce solution for Pearson.
- The suite was instrumental in saving 500 man hours/year. Technologies used - Selenium, Gauge, Sikuli, Java.
- Successfully automated more than 100 manual testing scenarios.

Software Developer (G.R.A)   **University of Iowa Hospitals, IA**   **October 2015 – May 2016**
- Developed a web app for management, analysis and retrieval of Genome Sequencing data using Ruby on Rails, MySQL.
- Created an internal tool to merge and compare sequencing data. Technologies used - Java, JavaFX, MySQL

Student Developer   **Information Technology Services, IA**   **October 2015 – January 2016**
- Refactored 'Datamine' project and its dependencies, resulting in significant improvement in the app performance.
- Technologies used - C#, .Net, Oracle, JavaScript, HTML5, CSS.

Languages and Technologies

- **Programming Languages** • Java • Python • C# • C++ • C • Swift • Visual basic • Ruby
- **Web Technologies** • HTML5 • CSS • Javascript • jQuery • Rails • Node.js
- **Databases** • MySQL • Oracle • MongoDB
- **Others** • iOS • Android • XML • J2EE

Academic Projects

Rasberry Pi-Led iOS App   **Aug 2016 – Dec 2016**
- Developed Pi-Led, a raspberry-pi based light, which can be controlled through iOS App.
- Control Color and pattern of light through the App. Used iOS Framework, Swift, X-code, Sketch.

Prediction and Configuration tool   **Aug 2016 – Dec 2016**
- Developed a prediction tool using machine learning and data mining algorithm 'K-Means Nearest Neighbor' for a single directional- antenna to predict the best configuration for beaming signal to a Mote and RSSI values using Java.

Social News Network   **August 2015 – December 2015**
- Developed a small social networking application with emphasis on sharing news and related articles in real time
- The application incorporated features like recommendation system, third party application and email notifications.
- The project was done in a team setting, following agile development methodology for tracking development progress.
- Ruby on rails, JavaScript, jQuery, HTML5, CSS, SQLite, Twitter Bootstrap, Cucumber, Capybara were used.

Side Projects

- Developed games like 'Tic-tac-toe' in C++ and 'AntSmash' (ants move on screen, smash them to earn points) in swift(iOS).
- As a TA for 'Intro to comp science', wrote script to automate grading process generating CSV report using Python.