PIYUSH RAO

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ   **Expected December 2017**
- Master in Computer Engineering, **GPA-3.7**
- Concentration and Graduate Certifications: Software Engineering and Embedded systems

Course Work: IoT, E-commerce Technologies, Computer Organization and Programming, Real-Time and Embedded Systems, Computing Principles and Embedded Systems, Special Problems in Electrical Engineering, Digital Computer Architecture

University of Mumbai, Maharashtra, India   **June 2016**
- Bachelor of Engineering in Electronics

TECHNICAL SKILLS

Programming Languages:	C++, C, Java, Python, MATLAB, R, Arduino IDE, Visual Basic
Database:	MySQL, Oracle, MS-Access, PostgreSQL
Web Technologies:	HTML5, CSS3, JavaScript, Twitter Bootstrap, PHP, AngularJS, WordPress, Git, Django
Tools:	MS-Excel, MS-Word, MS-PowerPoint, Kibana, Plotly, Tableau
Operating Systems:	Windows, Linux, Raspbian, Mac OS
Certifications:	Java, Full stack development

PROFESSIONAL EXPERIENCE

Ambiz Corporations, Mumbai, India   **Dec'14-Jan'15**
Junior System Developer Intern
- Developed a prototype to trigger ultrasonic horns fitted on cement silos using an Arduino after specific interval of time
- Designed the hardware circuit using power devices and software with Arduino IDE platform

PROJECTS

CPU Statistics Data Acquisition, Study, and Analysis, Stevens Institute of Technology   **Spring 2017**
- Collected data of several CPU parameters like RAM, temperature, number of tasks, and CPU utilization using MATLAB
- Analyzed 86,400 samples each for 3 types of operations, derived relations between the parameters, and plotted graphs using Tableau

Android Application for Guiding Tourists, Stevens Institute of Technology   **Spring 2017**
- Built an application that allows the user to rate and comment about a tourist spot and to choose them wisely by reading reviews
- The application also provides features like a splash screen, tabular view for sorting places, various filters, pictures, Google maps interface API and login using Gmail, Twitter, and Facebook

Checklist Application using Android Studio, Stevens Institute of Technology   **Spring 2017**
- Devised a checklist Android application, containing the list of things a student needs to carry while going abroad for education
- Learned using checkboxes, radio buttons, switches, animation, scrolling and swiping activities in an Android application

Travel Transaction Panel, Stevens Institute of Technology   **Spring 2017**
- Realizing that card payment option for a bus ticket does not exist, we successfully invented a prototype portal of a credit/debit transaction using Tkinter GUI library in Python and SQL for Stevens shuttle buses and their stops

Face Detection, Recognition and Classification using MATLAB, Stevens Institute of Technology   **Summer 2017**
- Used machine learning algorithms to successfully detect faces and recognize the individuals using HOG extraction
- Detected various facial parts like eyes, nose, and mouth, and matched them using the same algorithm

Android Application for Converting Speech to Text, Stevens Institute of Technology   **Fall 2016**
- Created an application in Android Studio to convert speech to text using United States English Google library

RF Based RC Controlled Environment Surveillance UAV, University of Mumbai   **Spring 2016**
- Administered a team to design a drone used to measure environmental parameter of a location to judge whether it is fit for human habitation by measuring temperature, pressure, humidity, and air quality
- Drafted the circuit and implemented it using various sensors, brushless DC motors, servo motors, and Arduino board

RF Based RC and Autonomous Floor Sweeper Robot, University of Mumbai   **Fall 2015**
- Interfaced ultrasonic sensor, servo, and DC motors, and self-made RF module remote control with Arduino board
- Programmed the robot to avoid obstacles on the floor while sweeping and it can switch to remote control whenever user wants to clean intricate areas in the room

ACHIEVEMENTS AND CO-CURRICULAR ACTIVITIES

- Student member of IEEE, CSI (Computer Society of India) and E-Cell (Entrepreneurship Cell, an initiative of IIT Bombay)
- Publicity head of IEEE DMCE (2015-2016)
- 1st in IEEE project presentation and technical debate (featured in the IEEE Communique Magazine) and 2nd in technical paper presentation
- Top 20 of Indian national level IEEE project presentation competition held by IEEE RAIT
- Volunteer work for NGOs "Urmi" and "Forest Society of India"
- Black belt in Japanese karate of self defense

Available from May 2017