# Bhaveek D. Desai

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## About

User centric programmer with a can-do attitude, phenomenal analytical skills and a knack for creativity. Has developed many software applications, including **Facebook** Graph API, an IoT application sponsored by **Google** and a Brain-Computer Interface funded by **Lenovo**.

## Work experience

### Graduate Student Assistant — May 2016 - Current
University of Florida, Gainesville, Fl, USA

- Lead developer for a **Lenovo** funded project to enable differently-abled people play drums with their minds, using Python, MATLAB and C++ JUCE.
- Co-authored a research paper for IEEE's International Conference on Digital Arts, Media & Technology (under review).
- Key contributor to two Brain-Computer Interface projects, including revision to the world's first ever Brain-Drone Racing.
- Conducted preliminary study on pair programming methods using behavior & sentiment analysis that resulted in continued research support and additional funding from a client.

### Systems Engineer — April 2013 - July 2015
Infosys Limited, Bangalore, India

- Part of the team whose impact led to a total saving of $25 million for a Fortune 100 client.
- Recognized as a high performer by Infosys founder and chosen as one of 20 employees to partake in his pilot initiative.
- Implemented feature enhancements and bug fixes using Java, Struts and SQL that led to 40% reduction in user tickets.
- Automated monitoring tasks using Shell Scripting resulting in improved data flow and reduced manual interventions.
- Performed Root Cause Analysis of failures to drive risk mitigation practices.

### Full-Stack Developer — December 2012 - April 2013
Sadharmik Kendra, Mumbai, India

- Responsible for migrating organization operations from paper to computer.
- Single handedly developed a full-stack application to digitize the record management system, using Linux, Apache, MySQL and PHP (LAMP).
- Trained the employees on using the application which reduced the turnaround time from hours to minutes.

## Projects

- **Beacon Tuner (Google Sponsored):** Built an Android based IoT app that filters Bluetooth broadcasts as per user preferences thereby reducing information clutter.
- **Facebook Graph API:** Used Scala and Spray to write a RESTful API that could handle about 100 requests/sec with end-to-end encryption.
- **ONE.UF:** Designed the notification module for University of Florida's student portal using storyboarding, wireframes and prototypes
- **Sensor Grid Networking Simulation** in Scala and Akka using Gossip/Push-Sum algorithm emulating a network of over 1700 sensor nodes talking to each other.

## Education

August 2015 - May 2017
**University of Florida**
Gainesville-FL, USA.
Master of Science - Computer Science
GPA: 3.36/4.0

August 2008 - May 2012
**University of Mumbai**
Mumbai, India.
Bachelor of Engineering - Information Technology
Class: First

## Skills

**Languages**
Java, Scala, C++, Python, Go, MATLAB, HTML, CSS, SQL

**Tools & Frameworks**
Git, RESTful API, Linux, LAMP, Balsamiq, Invision, Gimp