

EDUCATION

University of Florida, Gainesville, FL

Sept 2015 - April 2017

- Master of Science in **Computer Science**, **GPA: 3.43**
- **Coursework:** Computer Networks; Database Management Systems; Machine Learning for Health Applications; Social Network Computing; Software Engineering; Pattern Recognition.

University of Pune, Pune, India

Sept 2010 - May 2014

- Bachelor of Engineering in **Electronics and Telecommunications**, First Class with Distinction
- **Coursework:** Network Analysis, Signals and Systems, Digital Electronics & Design, Microcontrollers and Applications, Soft Computing, Solid State Devices and Circuits, Digital Communications.

PROFESSIONAL EXPERIENCE

Research Assistant

University of Florida

Aug 2019 - Present

- Developed a compact, inexpensive, and portable water quality monitoring system.

Web Developer

PREC, University of Florida

Sept 2017 – Aug 2019

- Developed python scripts for preprocessing the raw water consumption data and derive higher level insights using the raw data.
- Developed web apps (**H2OSAV**) to help visualize the derived insights over a map spanning the service area of the utilities.
- Helped design a pipeline that simplified, standardize, and speed up fetching the raw data from the clients and converting it into clean, usable, and meaningful information.

Student Research Assistant

Intelligent Health Systems Lab

Sept 2016 – Jan 2016

- Analyzed a corpus of medical journals, extracted and visualized various interesting information using **NLTK**, **Python** and other python libraries.

Backend Developer Intern

Filtrest, Inc.

July 2016 – Aug 2016

- Designed, developed and populated the database and lookup algorithms for the system using **Python** and APIs of popular social networking sites like Twitter, and Reddit.
- Constructed a relational database for storing the data obtained by lookup algorithms.

PROFESSIONAL PROJECTS

GatorByte (NodeJS, Eagle, Particle IDE)

Feb 2018 - Present

- Developing the firmware, back-end/data storage and web visualization for a portable water quality analysis device based on Particle Electron.

H2OSAV (jQuery, NodeJS, MongoDB, Python, JavaScript)

Sept 2017 - Present

- Developed a platform to gather and process water usage data and display the derived insights using a collection of web-apps.

ACADEMIC PROJECTS

Psyc (Electron, jQuery) GitHub

Feb 2017 – May 2017

- Designed a notetaking, to-do manager, and a desktop widget app for Linux.
- Added the capability to parse markdown text format.

Ultrasound Nerve Segmentation (Python, Keras, SciPy, NumPy) GitHub

Aug 2016 – Dec 2016

- Fashioned a machine-learning algorithm to predict the location of Brachial Plexus nerve in ultrasound images of the human neck to aid in surgical preparations.

Soccer Statistics System (Oracle database, PHP, jQuery)



Jan 2016 – April 2016

- Developed a real-time soccer facts machine using Oracle, PHP, HTML, JS and CSS for the course Database Management Systems which allows users to find interesting correlations among various players, leagues, etc.

Electronic Control Unit & Skid Detection (Arduino, LABVIEW VI)

May 2013 – Dec 2013

- Developed a system that could detect skidding and estimate other driving parameters such as acceleration and tilt of a bike.

WORKSHOPS & SEMINARS

DIY Water Monitoring Workshop

Sept 2019

- Attended CUAHSI's DIY Water Monitor, Data portals, and watershed monitoring workshop at Stroud Water Research Center, PA

PUBLICATIONS

Electronic Control Unit & Skid Detection

Dec 2014

- Published a paper in International Journal of Scientific Research

HONORS AND ACHIEVEMENTS

Runner-up in project presentation

March 2013

- Awarded second best junior year project at Intechxication 2013.

Dean's list

Oct 2013

- Placed in Dean's list for academic improvement at University of Pune.

First prize in project presentation

Feb 2014

- Awarded best senior year project at Texephyr 2014.

INVOLVEMENT

President

UF Kickboxing Club

Aug 2019 - Present

- Helped increase fight team size to 37 compared to 13 in 2018.
- Boxing instructor

Organizer, Lead web developer

Texephyr and Summit

Feb 2014

- Held organizer position and led a team of **web developers** to create the website for annual technical fest at University of Pune.
- Supervised a team of **graphics designers** that created the marketing content for the national sports meet at University of Pune.

Editor & Designer

Resonance

Sept 2013

- Edited and designed the departmental newsletter for the department of Electronics and Telecommunications at University of Pune.

AFFILIATIONS

- Member of college's Baseball and department's Basketball team at University of Pune.
- Participated in tournaments as an active member of Badminton club at University of Florida.
- Participated in community service events organized by Gators for Asha and Badminton club at University of Florida.

LANGUAGES AND TECHNOLOGIES

- Java, Python, C, Angular 2, Bootstrap, MySQL, NodeJS, Express, JavaScript, jQuery, PHP, HTML, CSS, MongoDB
- Android Studio, Firebase, AWS, Electron, Git, Agile, Eagle, Arduino