AMARDEEPSINGH B. SIGLANI

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EDUCATION

Master of Science in Computer Engineering **GPA: 4.0/4.0** (Expected) **April 2018**
University of Florida, Gainesville, FL

Coursework: **Analysis of Algorithms, Advanced Data Structures**, Advanced Systems Programming, **Distributed Computing**, Principles of Computer Systems Designing

Bachelor of Technology in Electronics Engineering **GPA: 9.6/10** **May 2015**
Veermata Jijabai Technological Institute (VJTI), University of Mumbai, India
Gold Medallist and Rank #1 amongst batch of 76 students

TECHNICAL SKILLS AND INTEREST

- **Java**, **Python**, C**,** C++, Makefiles, C#, .Net, HTML5, CSS, **Bootstrap**, JavaScript, jQuery, **Node.js, React JS**, Bulma, Semantic UI**, Git**, Web APIs, REST, Django, **SQL, MongoDB,** Web development, Data science
- Numpy, Pandas, Jupyter notebook, **Linux**, Android, **Hazelcast IMDG**, Statistical analysis, Algorithmic analysis

WORK EXPERIENCE

***Research Asst.,* Data-centric Modelling of Gainesville Business Lifecycle, UF** **May'17-Present**

- Creating a data driven model to understand business lifecycle in the City of Gainesville using Python
- Model would aid City to decide business-related policies by highlighting touchpoints that indicate success of the City businesses

***Software Engineer,* Diebold Systems, Mumbai, India** **June'15-July'16**

- ***Agilis 3 NDx – NDC Protocol based ATM Terminal application***
  Added Cash Recycling feature to the ATM terminal by developing software module for Agilis 3 NDx using C# .Net and JavaScript technologies
  Facilitated use of ATM for differently-abled by integrating ADA Compliant Secondary Display feature using C# .Net, HTML, CSS and JavaScript, SQL technologies

***Intern*, Ekalavya, IIT-Bombay, India** **May'14-July'14**

- Developed a Graphical User Interface module using Python and PyQT to display Voltage-Current plots for circuits in eSIM-An open source EDA Tool under FOSSEE, Indian Institute of Technology, Bombay

***Intern*, Centre of Excellence, VJTI, Mumbai** **Dec'13-Jan'14**

- Prototyped a Lunar Rover and setup distant communication with the rover using Arduino, Raspberry Pi and ZigBee protocol
- Performed image processing for obstacle avoidance using C++ and OpenCV library

PROJECTS

Fault Tolerant Multi level Distributed FUSE file system

- Developed a hierarchical, fault-tolerant distributed file system based on FUSE interface using Python
- Created the system based on Client-Server model using Python's XML-RPC library
- Performed load balancing by distributing data on multiple servers using round robin algorithm

Linux USB Keyboard Driver

- Developed USB Keyboard Driver in C that tweaked working of different keys and added two new modes of operation

Online Distributed Graph Processing System

- Developed online graph processing system for real time highly efficient distributed graph processing using Java and Hazelcast In-Memory Data Grid

Socio Travel, Hack Illinois

- Prototyped a web application using HTML, CSS, Bootstrap, React Framework and Node.js to recommend users about best options to travel from source to destination for a given date range and simultaneously contribute to the society while on the trip

Smart Stadium (Winner SWAMP HACKS 2017):

- Developed a prototype IoT system to make the stadium space smart with indoor navigation powered by beacons and providing a "real time advertising platform" using Javascript, Node.js, HTML, CSS, React.
- Advertising platform allowed companies to bid for ads on beacons and billboards located in stadium through a web portal which showed popularity rating of the company/product based on attendees' data.