

Siddharth Mistry

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GitHub: <https://github.com/mistry-siddharth>

Personal Portfolio: <https://mistry-siddharth.github.io/>

EDUCATION

M.S. in Telecommunications - University of Maryland, College Park (May 2014)

GPA: 3.51/4.0

B.E. in Electronics & Communications Engineering - Gujarat University, India (June 2011)

GPA: 3.70/4.0

TECHNICAL SKILLS

Programming languages: Python, Java, MATLAB, HTML, CSS, Bootstrap, JavaScript, jQuery, SQL

Tools: Jenkins (CI/CD), Git, Omnipeek, Wireshark, Eclipse, IDLE, Grunt, Vagrant

Technologies: Cloud - SaaS, PaaS, IaaS, AWS, LTE, TCP/IP, DNS

PROJECTS

Online Portfolio and Resume

December 2016

- Designed an online portfolio and resume using HTML, CSS, Bootstrap, JavaScript, and jQuery
- Implemented concepts of responsive web design and responsive images for optimizing site for different screen sizes

Twitter automated response bot

November 2016

- Designed a bot in Python that works on the concept of information dissemination
- Configured the bot to listen to certain keywords/#hashtags/users and to reply with a fact based on keyword scraped from Wikipedia
- Used BeautifulSoup to scrape events from Wikipedia matching certain criteria and retrieving a random fact from Wikipedia
- Developed a module for replying that has a text-to-image converter which allows replying with facts that are greater than 140 characters

Flappy Bird Clone

November 2016

- Developed flappy bird game clone in Python using PyGame module
- Created methods to start a new game, make decisions when the player has crashed in obstacles, increase the difficulty level as the game progresses, and for scoring

OFDM Downlink Physical Layer Design in MATLAB

April 2013 - May 2013

- Designed down-link transmitter and receiver and transmitted pilot bits using QPSK modulation along with data using QPSK and 16-QAM modulation
- Modeled AWGN wireless channel and Rayleigh multipath channel to compare system performance with channel response
- Designed the filter and Zero Forcing Equalizer to compensate for the channel effects induced at the receiver end for Rayleigh channel

Implementation of reliable data transfer over UDP

October 2012 - November 2012

- Implemented Stop and Wait Protocol using UDP sockets in Java for communication between the transmitter and receiver
- Provided data flow control, implemented error detection and timeout retransmission for reliability

WORK EXPERIENCE

RF Engineer I, TeleWorld Solutions, USA

June 2014 - November 2016

- Improved network performance by optimizing RF KPIs after diagnosing RF issues for Verizon VoLTE network
- Achieved 50% better outdoor coverage for Chicago downtown Sprint LTE network
- Achieved >40% improvement for CINR, throughput and spectral efficiency for Chicago downtown Sprint LTE network
- Highlighted improvements in network performance for using AltioStar RAN equipment as compared to competing vendor
- Performed user experience testing for Comcast public Wi-Fi network and mitigated beacon overreach issues

LEADERSHIP EXPERIENCE

Vice-President TSAN (Telecommunications Student and Alumni Network)

September 2013 - April 2014

- Organizing and managing various technical activities like resume critiques by ENTS Alumni, technical seminars/workshops related to student interest
- Helping ENTS batch students with providing various industry related information for job applications and current industry trends