

Maneesh Reddy T

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Education

B. Tech., Electronics and Communication Engineering (specialization in Computer Communications)		
Koneru Lakshmaiah Education Foundation, Vijayawada, India	8.91/10 CGPA	May 2020
12th Grade		
Nalanda Vidya Niketan, Vijayawada, India	89%	May 2016
10th Grade		
Nalanda Vidya Niketan, Vijayawada, India	9.8/10 CGPA	May 2014

Internships and Work Experience

Lead Programmer, Scarlett Moose Entertainment private limited	June 2019 – Present
<i>It is an emerging game development startup company incorporated in May 2019, which plans to release its first game in 2021.</i> <ul style="list-style-type: none">I am working as a Game development Programmer and IT Operations Engineer.Developing games using Unity and deals with System Administration, Networking & Security.	
Intern, South Central Railway, India	May 2018 – June 2018
<ul style="list-style-type: none">Trainee in the field of data communication in the Route Relay Interlocking (RRI) system in railway signaling system.Observed some aspects such as fiber-optic communication, panel interlocking, working pattern of railway employees and task division among departments.	

Skills

Languages: C, C++, Python, Java, C#, Bash, Verilog HDL, SQL, JavaScript, HTML5, CSS3

Technologies: Git, Django, Amazon Web Services, Unity Engine, Heroku, MongoDB, REST API, MySQL, Bootstrap3, Selenium, LaTeX, Nginx

Other: Web Scraping, Ethical hacking, Arduino Programming, Networking, Systems Engineering, Building Bots & Servers

OS: Linux – Ubuntu, Arch, Kali; Windows, Mac OS

Research Experience

Multipurpose Drone for human tracking and biometrics with human pose	Paper under review by IEEE Transactions
<i>Building a UAV drone helpful in tracking humans using gait recognition and human pose approximation during COVID-19 pandemic.</i>	
Enhancing End-to-End encryption with custom ciphering of messages	Paper published by CRC Press (Taylor & Francis)
<i>To protect the users from eavesdropping by MNCs, existing model of E2E encryption is augmented with additional level of protection, that can only be altered by the user.</i>	
Facial Recognition System on Raspberry Pi with Enhanced Security	Paper published in IEEE ic-ETITE20 Conference
<i>Enhancing Bank security with Facial Recognition system with OpenCV ML algorithms and notification alert sent using Telegram BOT embedded in Raspberry Pi</i>	
Distributed Peer-To-Peer Data Storage and Synchronizing Websites	Paper under review by Peer-to-Peer Networking journal
<i>Built a web app using BitTorrent & Bitcoin protocols, that delivers content in a peer-to-peer manner to all the users, made detailed comparison with client-server model.</i>	
Manage Network Traffic of 5G Wireless Networks using ML algorithms	Term paper report submitted to KLEF
<i>Term paper research work on SDN with 5G technology, further included an offline content recommendation system with Apriori ML algorithm, to reduce bandwidth.</i>	

Projects

Reddit Stuff Downloader	link
<i>Python cli tool that can download any subreddit posts/media/content from Reddit website, along with comments - using Reddit API & crawler</i>	
Morse Code Encoder using Basys3	link
<i>The Morse Code Encoder will convert a single character input into Morse code and display it using the LED's present on the Basys 3 board</i>	
Discord Bot that manages some server tasks with natural language processing	link
<i>Bot hosted on Heroku, added to a Discord channel to simplify tasks by the commands given by different users</i>	
Telegram Bot that monitors Steam market price variations and inform users	link
<i>Self-hosted bot that notifies users about changes in Steam market prices of various specified items - collected using MongoDB</i>	
Gaana-Music-Downloader web application using Django	(not open-source)
<i>Web-application developed and hosted using Django & Flask framework, that delivers music files from Gaana website to users</i>	
Cryptocurrency live price tracking with user alert system	link
<i>Using CoinMarketCap API to retrieve live Cryptocurrency prices and notifying users about rise and fall in value of different crypto-coin prices.</i>	

Certifications

Offensive Security Certified Professional	<i>Offensive Security</i>	<i>Jan 2021*</i>	
CompTIA Security+	<i>CompTIA</i>	<i>Jan 2021*</i>	
Introduction to Cyber Security Specialization	<i>Coursera - New York University</i>	<i>Jan 2020</i>	link
Computer Sec and Systems Management	<i>Coursera - Univ of Colorado</i>	<i>Dec 2019</i>	link
Computer Communications Specialization	<i>Coursera - Univ of Colorado</i>	<i>Aug 2019</i>	link
AWS Fundamentals: Going Cloud-Native	<i>Coursera - Amazon Web Services</i>	<i>Jan 2020</i>	link
Introduction to Game Development	<i>Coursera - Michigan State Univ</i>	<i>Nov 2019</i>	link

Workshops & Accomplishments

✓ <i>Presented a paper and poster on Public safety using Internet of Things (IoT) enabled solutions at Zrotriya, a National level technical fest, KLEF</i>	<i>March 2019</i>
✓ <i>Attended a workshop on Basics of Designing a Webpage and App development, KLEF</i>	<i>March 2019</i>
✓ <i>Attended a seminar on entrepreneurship by Ashoka S Kanna founder and CEO of Younify, at KLEF</i>	<i>Jan 2019</i>
✓ <i>Designed a portfolio website about myself and hosted on GitHub pages</i>	<i>Jan 2019</i>
✓ <i>Participated and represented a team in ACM-ICPC 2019 programming competition</i>	<i>Oct 2018</i>
✓ <i>Established a self-hosted cloud server, that serves various clients with data storage and sharing functionality.</i>	<i>Sept 2018</i>
✓ <i>Attended a seminar on Cyber Security - Risk and Awareness conducted by Government of Andhra Pradesh, at KLEF</i>	<i>Feb 2018</i>
✓ <i>Participated and represented a team in ACM-ICPC 2018 programming competition</i>	<i>Nov 2017</i>
✓ <i>Head of LAN Gaming Association - Organized University wide gaming events during our university fest, Samyak</i>	<i>Sept 2017 - Feb 2020</i>
✓ <i>Member of the ECE Department student body PULSE which organizes and conducts all the events of the ECE department.</i>	<i>Jan 2017 - Mar 2020</i>
✓ <i>Volunteered in the Swatch Bharat campaign to clean streets and roads, by KLEF</i>	<i>Oct 2017</i>
✓ <i>1st place in Week-of-Programming challenge conducted by KLEF</i>	<i>Dec 2016</i>