**Aryan Gupta**

me@theguptaempire.net **|** (704) 249-1595

Ver. 20190829

Sub:

**EDUCATION:**

University of North Carolina at Charlotte - Charlotte, NC *2016 – Present*

*Bachelor of Science in Computer Engineering Minor in Software Systems and Mathematics*

GPA: 3.558 / 4.000

**WORK EXPERIENCE:**

Mosaic Computing / Personal Computer Support

*Lead Technical Assistant (Lead TA) Apr. 2018 – Present*

* Managed other TAs in work environment
* Conducted interviews for potential TAs

*Hardware Technical Assistant Internship Summer 2019*

* Assisted in managing servers used by College of Engineering
* Troubleshot machines for hardware issues
* Assisted other departments in various issues

*Technical Assistant (TA) Aug. 2016 – Apr.2018*

* Managed Mosaic computing environment and associated computers
* Assisted engineering students and faculty with computer issues
* Managed redundant servers for software management and deployment

Best Brains Tutoring

*Grader 2015 – 2016*

* Graded work completed by students

**PROJECTS, RESEARH, AND CREATIVE ENDEAVORS:**

*NASA University Student Launch Initiative (Senior Design) 2019 – 2020*

* Constructed a rocket with a UAV payload
* Lead design and implementation of Camera Vision to detect drop location from rocket
* Assisted in design of UAV quadcopter to carry drilling mechanism to drop site

*Arduino-based Flight controller (Personal Project) Summer 2018*

* Independently designed and constructed an Arduino-based quadcopter.
* Self-taught details on PWM, Serial, I2C, and PID.
* Designed custom I2C library for Arduino Nano to double performance from Arduino libs
* Reverse engineer iBUS protocol to interface with Arduino Nano using logic analyzer

*DC to AC Inverter (Junior Design) Summer 2019*

* Worked with a team to design and fabricate a DC to AC inverter.
* Troubleshoot, debug and resolve issues with custom PCB/circuit design.

*Home Lab Summer 2015 – Present*

* Independently implemented a home lab with multiple Linux and Window servers.
* Host webserver with Let’s Encrypt® certificate, DHCP, DNS, and other custom server protocols

**SKILLS:**

On a scale of 0 (beginner) to 10 (expert).

|  |  |  |  |
| --- | --- | --- | --- |
| C++ 9 | Python 6 | Linux 7 | ARM 5 |
| Troubleshooting 9 | openCV 3 | Git 5 | Leadership 7 |
|  |  |  |  |

**ACTIVITIES AND LEADERSHIP:**

Windows Insider, Microsoft *2015 – Present*

* Beta tested Windows 10, Windows Server 2016 and Office 2016 in a virtual machine and as a primary OS

Boy Scout, Boy Scout of America *2008 – 2017, 2019 – Present*

* Assistant Scout Master, Dec. 2019 – Present
* Senior Patrol Leader, 2015
* Junior Assistant Scoutmaster, 2017
* Philmont Trek Leader, 2014
* Assistant Patrol Leader (Warlord Patrol), 2013 – 2014
* Assistant Patrol Leader (Pedro Patrol), 2016
* Quartermaster, 2012 – 2014

Technology Student Association (TSA) *2014 – 2016*

* Member, 2014 - 2016
* TSA Officer (Webmaster), 2015

Orchestra *2004 – 2016*

* Orchestra, 2004 – 2012
* Symphonic Orchestra, 2013 – 2015
* Chamber Orchestra, 2015 – 2016

Chorus *2003 – 2014, 2016*

* Chorus, 2003 – 2012
* Concert Chorus, 2012 – 2014
* Men’s Chamber, 2016

National Honor Society *2015 – 2016*

National Science Honor Society *2015 – 2016*

National Technical Honor Society *2016*

National Society of High School Scholars *2014 – 2016*

**HONORS AND AWARDS:**

Emergency Management Instructional Training, 2013

* + Completed the Emergency Management Instructional Training offered by FEMA

NJROTC (Marine Corps Navy Junior Reserve Officers Training Corps)

* + Cadet Private First Class Rank, 2012
  + Cadet Lance Corporal Rank, 2012
  + Cadet Corporal Rank, 2013

YLT Top Gun, 2013

* + Completed the week-long National Youth Leadership Training offered by Boy Scouts of America.

Technology Student Association (TSA) Competitions

* Regionals 3rd Place in 3D CAD, 2015
* Regionals 1st Place in Biotechnology, 2016
* Regionals 1st Place in Webmasters, 2016
* Regionals 2nd Place in 3D CAD, 2016
* States 1st Place in Webmasters, 2016
* States 3rd Place in Biotechnology, 2016
* States 3rd Place in 3D CAD, 2016
* Nationals 5th Place in Biotechnology, 2016
* Nationals 5th Place in Webmasters, 2016

TSA Webmasters, 2015

* + Created and maintained the TSA Website

Owner of The Gupta Empire

* + Maintains personal server under theguptaempire.net domain

Boy Scouts of America

* + Firem’n Chit, 2014
  + Totin’ Chip, 2014
  + Merit Badges
    - Search and Rescue, 2012
    - Personal Fitness, 2013
    - Indian Lore, 2013
    - Wilderness Survival, 2013
    - Swimming, 2013
    - Insect Study, 2013
    - First Aid, 2013
    - Camping, 2013
    - Lifesaving, 2014
    - Citizenship in the Nation, 2014
    - Citizenship in the World, 2014
    - Finger Printing, 2014
    - Orienteering, 2014
    - Archery, 2014
    - Weather, 2014
    - Digital Technology, 2015
    - Rifle Shooting, 2015
    - Environmental Science, 2015
    - Engineering, 2015
    - Electronics, 2016
    - Personal Management, 2016
    - Cooking, 2016
    - Citizenship in the Community, 2016
    - Communication, 2016
    - Family Life, 2016
  + Ranks
    - Scout Rank, 2011
    - Tenderfoot Rank, 2012
    - Second Class Rank, 2013
    - First Class Rank, 2014
    - Star Scout Rank, 2014
    - Life Scout Rank, 2015
    - Eagle Scout Rank, 2016
  + Order of the Arrow
    - Ordeal Member, 2014
    - Brotherhood Member, 2015

**VOLUNTEER EXPERIENCE:**

Second Harvest Food Bank (Feeding America), 2015

* Sorted food and other donated goods in to boxes
* Time: 2 hours each day for 2 weekends

Scouting for Food (Boy Scouts of America), 2012 – present

* Distributed food donation bags then collected them a week later
* Time: 5 hours for 2 days each year

Adopt-A-Stream Cleanup (Boy Scouts of America), 2012 – present

* cleaning up a local stream our troop has adopted
* Time: 4 hours one weekend each year

Luminaries/Love Lights (Pilot Club of Charlotte), 2010 – present

* Placed bags with names of people whose life has been impacted by Alzheimer’s around a pond
* Time: 6 hours one weekend each year

Church Clean-up (Living Savior Lutheran Church), 2010 – present

* Cleaned up and mulched the grounds around our local church
* Time: 4 hours one weekend each year

Loaves and Fishes, 2013

* Sorted donated food in to boxes
* Time: 4 hours on a weekend

Toys for Tots (Marine Toys for Tots Foundation), 2013

* Sorted donated toys in to boxes for children
* Time: 5 hours for 2 days

Eagle Project (Boy Scouts of America), 2015

* constructing and painting wooden benches for our school tennis team
* Time: 5 hours for 5 weeks