Aryan **Gupta**

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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