

SNEH JAIN

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Education

- University of North Carolina At Charlotte | MS, Computer Science** **Expected Graduation: May 2022**
Concentration: Software, System & Networks **Cumulative GPA** 4.0/4.0
Relevant Coursework: Algorithms and Data Structures, Advanced Mobile Application Development, Cloud Computing, Software Systems Development, and Integration.
- University of Mumbai | BE, Information Technology** **Aug 2016 - Oct 2020**
Relevant Coursework: Artificial Intelligence, Cryptography, Operating Systems, Distributed Databases, Computer Architecture, Computer Networks

Technical Skills

- Programming Languages:** Java, Python, PHP, C, C++, JavaScript, SQL
- Database:** MySQL, PostgreSQL, SQLite3, Firebase, Hadoop, MongoDB, Spark, MapReduce
- Web Technologies:** HTML, CSS, AJAX, JS, REST, JSON, Express, Node, MERN Stack, Full Stack, jQuery
- Additional:** Android Studio, CodeIgniter, Git, Docker, Jenkins, Scrum, Linux, Pandas, NumPy, AWS, GCP, Jupyter Notebook, Heroku

Experience

- University of North Carolina at Charlotte** **Aug 2021 – Present**
Graduate Teaching Assistant | Software System Design and Implementation Graduate Course
 - Assisted more than 50 students per semester in development and understanding basic concepts of software development, design, coding, testing, models, deployment, maintenance
- FallenTech, Game Server | Software Developer** **Jun 2016 – Dec 2020**
 - Developed an entire Game server for Minecraft: Bedrock Edition owned by Microsoft in College.
 - Sole developer of the Servers, Websites, Discord bots, an Android app.
 - Designed using the open-sourced PocketMine library in PHP. The server received more than a unique 1,000,000+ logins.
 - Deployed using Jenkins for CI and Docker for delivery and stability: [Github](#), [Website](#)

Major Projects

- [Inventory Management App](#) (Java + FireBase + Android)** **Jan 2021 – May 2021**
Implemented using Android Studio. Written in Java. Used Google Firebase for a real-time central cloud database 100% and achieved Data integrity and concurrency. This app can be used for personal use as well as businesses like warehouse management. This app provides cloud authentication which means the login can be shared with the other users of the same inventory which saves a lot of time.
- [Feedback Portal Website](#) (PHP + HTML + CSS + JS + Charts.JS + Data mining + CodeIgniter)** **Dec 2018 – Apr 2019**
Developed and maintained my college's faculty feedback portal. Implemented 60% using CodeIgniter – PHP Framework for feasibility and data security and 40% using JavaScript for Front end. This project went on to become an official feedback system of the IT dept of our college. Used Charts JS to display the feedback given by the students. Data mining was implemented so that Teachers could view the anonymous feedback given by the students on bar/pie charts and see their areas of improvement.
- [Automated Web Crawler \(NEXUS\)](#) (PHP + Crawler + JS + jQuery + HTML + CSS)** **May 2019 – Nov 2020**
Developed and maintained College's Research Cell website. Used SimpleHTMLDomParser Library for web crawling Google scholar publications of the faculty (nearly 2000 publications) to display on the website in tables. Written in PHP and JavaScript. Was given the title `Webmaster` as commemoration.
- [Discord Bots](#) (Python + Discord.PY + REST + PHP + Docker + Jenkins)** **Oct 2017 – Dec 2020**
Created 4 Discord bots deployed on a server for my community Discord server (10,000+ members). Used the open-sourced Discord.py API Wrapper for the library. To display player stats, implemented RESTful APIs on the gaming server to fetch it in an asynchronous manner. Used Remote Console (web sockets) to send commands to the gaming server from Discord to avoid logging in the game. Implemented multiple webhooks to sync data between the servers.

Achievements and Activities

- Unanimously chosen `Webmaster` of the Research Cell of my College.
- Participated in Smart India Hackathon Twice in 2018 and 2019.
- Appointed Member of Computer Society of India (CSI) Chapter of our College in 2018.
- Volunteer for multiple CSI Chapter Events in College.
- Volunteer for the Art of Living NGO.
- Published IRJET [Technical Paper](#) on Web crawlers and Javascript.
- Attended the ACM's Ethical Hacking 2-day Workshop in College.