

Umang Gupta

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EDUCATION

Singapore University of Technology and Design <i>Bachelor of Engineering in Computer Science and Design, Minor in Artificial Intelligence</i>	Singapore Sept. 2020 – May 2024
Blinn College <i>Associate's in Liberal Arts</i>	Bryan, TX Aug. 2014 – May 2018

EXPERIENCE

Undergraduate Research Assistant <i>Texas A&M University</i>	June 2020 – Present College Station, TX
<ul style="list-style-type: none">Developed a REST API using FastAPI and PostgreSQL to store data from learning management systemsDeveloped a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub dataExplored ways to visualize GitHub collaboration in a classroom setting	
Information Technology Support Specialist <i>Southwestern University</i>	Sep. 2018 – Present Georgetown, TX
<ul style="list-style-type: none">Communicate with managers to set up campus computers used on campusAssess and troubleshoot computer problems brought by students, faculty and staffMaintain upkeep of computers, classroom equipment, and 200 printers across campus	
Artificial Intelligence Research Assistant <i>Southwestern University</i>	May 2019 – July 2019 Georgetown, TX
<ul style="list-style-type: none">Explored methods to generate video game dungeons based off of <i>The Legend of Zelda</i>Developed a game in Java to test the generated dungeonsContributed 50K+ lines of code to an established codebase via GitConducted a human subject study to determine which video game dungeon generation technique is enjoyableWrote an 8-page paper and gave multiple presentations on-campusPresented virtually to the World Conference on Computational Intelligence	

PROJECTS

VoiceBus <i>Swift, IOS, Machine Learning</i>	Dec 2021 – May 2022
<ul style="list-style-type: none">Developed a full-stack ios bus information application for the visually impairedUsed machine learning to recognize and process speech, convert text to speechWinner of Swift Inclusive App Dev Hackathon 2022The only app to receive positive user testing feedback, and published app on app store	
HAWKERGO <i>Spigot API, Java, Maven, TravisCI, Git</i>	May 2018 – May 2020
<ul style="list-style-type: none">Developed a Minecraft server plugin to entertain kids during free time for a previous jobPublished plugin to websites gaining 2K+ downloads and an average 4.5/5-star reviewImplemented continuous delivery using TravisCI to build the plugin upon new a releaseCollaborated with Minecraft server administrators to suggest features and get feedback about the plugin	
Simple <i>Spigot API, Java, Maven, TravisCI, Git</i>	May 2018 – May 2020
<ul style="list-style-type: none">Developed a Minecraft server plugin to entertain kids during free time for a previous jobPublished plugin to websites gaining 2K+ downloads and an average 4.5/5-star reviewImplemented continuous delivery using TravisCI to build the plugin upon new a releaseCollaborated with Minecraft server administrators to suggest features and get feedback about the plugin	

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI
Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: pandas, NumPy, Matplotlib