

# Sarwan Upadhyay

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## EDUCATION

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<b>Gehu</b> <i>Bca</i>	<b>haldwani</b> Aug 2023 - June 2026
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## EXPERIENCE

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<b>Undergraduate Research Assistant</b> <i>Texas A&amp;M University</i>	<b>June 2020 - Present</b> College Station, TX
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- Developed a REST API using FastAPI and PostgreSQL to store data from learning management systems
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data

<b>Information Technology Support Specialist</b> <i>Southwestern University</i>	<b>Sep. 2018 - Present</b> Georgetown, TX
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- Communicate with managers to set up campus computers used on campus
- Assess and troubleshoot computer problems brought by students, faculty and staff
- Maintain upkeep of computers, classroom equipment, and 200 printers across campus

<b>Artificial Intelligence Research Assistant</b> <i>Southwestern University</i>	<b>May 2019 - July 2019</b> Georgetown, TX
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- Explored methods to generate video game dungeons based off of The Legend of Zelda
- Developed a game in Java to test the generated dungeons
- Contributed 50K+ lines of code to an established codebase via Git
- Conducted a human subject study to determine which video game dungeon generation technique is enjoyable
- Wrote an 8-page paper and gave multiple presentations on-campus
- Presented virtually to the World Conference on Computational Intelligence

## PROJECTS

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<b>Gitlytics   Python, Flask, React, PostgreSQL, Docker</b>	<b>June 2020 - Present</b>
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- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Celery and Redis for asynchronous tasks

<b>Simple Paintball   Spigot API, Java, Maven, TravisCI, Git</b>	<b>May 2018 - May 2020</b>
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- Developed a Minecraft server plugin to entertain kids during free time for a previous job
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

## TECHNICAL SKILLS

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