Jake Gutierrez

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EDUCATION

Southwestern University   Georgetown, TX
Bachelor of Arts in Computer Science, Minor in Business   *Aug. 2018 – May 2021*
- Blended CS fundamentals with business thinking to build reliable, user-centered software.

Blinn College   Bryan, TX
Associate's in Liberal Arts   *Aug. 2014 – May 2018*
- Completed a broad curriculum that strengthened quantitative reasoning, communication, and learning agility.

EXPERIENCE

Undergraduate Research Assistant   June 2020 – Present
Texas A&M University   *College Station, TX*
- 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.
- Explored ways to visualize GitHub collaboration in a classroom setting.

Information Technology Support Specialist   Sep. 2018 – Present
Southwestern University   *Georgetown, TX*
- 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.

Artificial Intelligence Research Assistant   May 2019 – July 2019
Texas A&M University   *Georgetown, TX*
- 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

Gitlytics | *Python, Flask, React, PostgreSQL, Docker*   June 2020 – Present
- Developed a full-stack web application using 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.

Simple Paintball | *Spigot API, Java, Maven, TravisCI, Git*   May 2018 – May 2020
- 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

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, NumPy, Matplotlib