

# Jake Gutierrez

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## EDUCATION

### Southwestern University

*Bachelor of Arts in Computer Science, Minor in Business*

Georgetown, TX

Aug. 2018 – May 2021

- Blended CS fundamentals with business thinking to build reliable, user-centered software.

### Blinn College

*Associate's in Liberal Arts*

Bryan, TX

Aug. 2014 – May 2018

- Completed a broad curriculum that strengthened quantitative reasoning, communication, and learning agility.

## EXPERIENCE

### Undergraduate Research Assistant

*Texas A&M University*

June 2020 – Present

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

*Southwestern University*

Sep. 2018 – Present

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

*Texas A&M University*

May 2019 – July 2019

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 a new 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