Jake Ryan

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# Education

**Southwestern University** Georgetown, TX

*Bachelor of Arts in Computer Science, Minor in Business Aug. 2018 – May 2021*

**Blinn College** Bryan, TX

*Associate’s in Liberal Arts Aug. 2014 – May 2018*

# 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

*Southwestern 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 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

**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, Eclipse

**Libraries**: pandas, NumPy, Matplotlib