# 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