

Jake Taylor

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EDUCATION

Bachelor of Science in Computer Science

University of Texas at Austin

May 2021

Austin, TX

Associate's in Computer Science

Austin Community College

May 2018

Austin, TX

WORK EXPERIENCE

Software Engineer

Dell Technologies

Jul 2021 - Present

Round Rock, TX

- Developed RESTful API with Python, FastAPI, and PostgreSQL, reducing data retrieval times by 50%
- Created a full-stack web application using React and Flask, driving a 30% increase in overall user engagement
- Integrated GitHub for collaboration, boosting code quality by 35% and reducing review cycle times by 20%
- Deployed cloud solutions on Google Cloud, optimizing resource usage and cutting infrastructure costs by 25%

IT Support Specialist

University of Texas at Austin

Sep 2018 - Jun 2021

Austin, TX

- Managed 350+ computers across campus, reducing downtime by 40% through proactive maintenance
- Collaborated on network security upgrades, leading to a 40% reduction in security-related incidents
- Trained and onboarded 15 new IT support staff, increasing department efficiency and response times by 25%

AI Research Assistant

University of Texas at Austin

May 2019 - Aug 2019

Austin, TX

- Developed algorithms generating 1,000+ unique game levels, increasing engagement by 20% in playtesting
- Engineered and tested Java-based game simulations, achieving 90% accuracy in automated layout generation
- Contributed 60K+ lines of code to a joint project, improving research efficiency by 30% through optimizations

PROJECTS

RepoMetrics | Python, Flask, React, PostgreSQL, Docker

Jun 2020 - Present

- Built a full-stack application with Flask and React, improving data processing speeds by 50% for all users
- Integrated GitHub OAuth for secure user authentication, supporting 500+ active users across multiple projects
- Designed interactive data visualizations, improving decision-making and collaboration insights by 40%
- Increased task handling efficiency by 30% using Celery and Redis for asynchronous background processing

BattleArena | Spigot API, Java, Maven, TravisCI, Git

May 2018 - May 2020

- Developed a Minecraft server plugin, achieving 3,000+ downloads and maintaining a 4.7/5 -star rating
- Applied TravisCI for continuous integration, reducing deployment time by 35% and increasing update speed
- Improved user experience by 20% using feedback from 200+ server admins and rapid feature iterations
- Boosted user retention by 25% through regular updates, enhancements, and community engagement

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, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries | pandas, NumPy, Matplotlib