# G. Jake Gunnell

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Full-stack developer and Information Systems student with experience building production applications using Python, JavaScript, SQL, React, and FastAPI. Skilled in backend development, front-end interfaces, REST APIs, cloud infrastructure, and database design. Interested in scalable systems, financial technology, and creating reliable software for real use.

## EDUCATION

**Bachelor of Science, Information Systems**                                                    **Sep 2024 – April 2028**

Software & Systems Development Emphasis, STEM-Certified Technical Program

*Brigham Young University - Marriott School of Business, Provo, UT*

- GPA: 3.71
- Member, Association for Information Systems
- Relevant Coursework: Database Systems (IS 402), Business Programming (IS 403), Data Communications (IS 404), Enterprise Application Development (IS 413), IS Security & Controls (IS 414), Systems Design (IS 401), Computer Programming (IS 303), Machine Learning (IS 455)

## TECHNICAL SKILLS

- **Programming & Data:** Python, JavaScript/Node.js, SQL, HTML/CSS, Java, EJS, React, Next.js, FastAPI, Express, Flask, Tailwind, Bootstrap
- **Data & Visualization:** Polars, Plotly, Database Management, Tableau, Power BI, Machine Learning
- **Systems & IT**: System Administration, Network Configuration, IT Troubleshooting, Linux, Process Automation
- **Tools & Infrastructure**: Git/GitHub, AWS (EC2, RDS, S3), Docker, Nginx, VS Code, Microsoft 365, Google Workspace
- **Languages:** Fluent in Tagalog, Conversant in Bicolano

## EXPERIENCE

**Full-Stack Developer – Student Engineer**                                                    **Sep 2025 – Present**

*BYU Silver Fund – Student Investment Fund, Provo, UT*

- Maintain and extend a production full-stack platform used by student portfolio managers (FastAPI, React, PostgreSQL, Polars)
- Add new backend routes, optimize queries, and support data processing pipelines for live portfolio reporting and user viewing
- Contribute to frontend components, improve dashboard views, and fix various UI issues across the application
- Work in a structured Git workflow with feature branches, pull requests, and peer reviews to keep the codebase consistent
- Assist teammates during development cycles by providing feedback, troubleshooting, and resolving technical challenges

**Student Service Desk Technician**                                                    **Aug 2025 – Nov 2025**

*BYU College of Life Sciences, Provo, UT*

- Resolved hardware, software, and network issues for 200+ students and faculty, ensuring reliable system performance
- Delivered high-quality customer support by explaining solutions clearly and tracking issues in a ticketing system
- Diagnosed and resolved recurring system errors, providing timely solutions that minimized classroom disruptions

**Technology Helper**                                                    **Jun 2025 – Aug 2025**

*Nye County School District, Pahrump, NV*

- Deployed and configured 15+ network switches across district sites, ensuring seamless integration with legacy infrastructure
- Performed daily backups, user account management, and routine troubleshooting across multiple schools
- Documented IT workflows and produced step-by-step support guides to standardize procedures and speed onboarding

**Volunteer Representative – Tagalog Fluency**                                                    **Jun 2022 – Jun 2024**

*The Church of Jesus Christ of Latter-day Saints, Legazpi, Philippines*

- Taught 10+ individuals daily in Tagalog and English, adapting instruction for varied language and educational levels
- Directed and mentored a team of 12 missionaries to complete landscaping and cleanup projects that benefited 500+ students
- Lived with and trained 8 missionaries weekly in English, enabling smoother communication and more effective service

## PROJECTS & COMPETITIONS

- **Huus Cleaning Platform | 2025** – Developed a full-stack website using Node.js, Express, EJS, PostgreSQL, and Tailwind; contributed to routing logic and admin workflows and assisted with preparing the application for deployment
- **EY Technology Risk Case Competition | 2025** – Analyzed logs, penetration test results, and network diagrams using quantitative approaches to recommend operational risk mitigations, improving system reliability
- **Algorithmic Trading Bot | 2025** – Built a Python-based algorithmic trading bot leveraging regression and classification ML models to generate actionable trading signals; backtested on historical datasets achieving 12% portfolio return

## OTHER ACHIEVEMENTS

- Eagle Scout, Boy Scouts of America
- Organized and led an intramural basketball team, fostering teamwork and competing in campus-wide play
- Directed weekly Family Home Evening groups for young men and women, coordinating lessons and activities