G. Jake Gunnell

Software Engineer Intern | Full-Stack Software Engineer
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Software Engineer Intern & IS Student: Experience building/maintaining production full-stack apps using Python, JavaScript, SQL, FastAPI, React, and AWS. Background in backend dev, RESTful APIs, and cloud-based systems.

EDUCATION

Bachelor of Science, Information Systems   **Expected Graduation: April 2027**
Software & Systems Development Emphasis, STEM-Certified Technical Program
Brigham Young University - Marriott School of Business, Provo, UT
- Relevant Coursework: Database Systems, Enterprise Application Development, Business Programming, Systems Design, Data Communications, IS Security & Controls, Machine Learning

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, SQL, Java, HTML, CSS
- **Frameworks & Libraries:** FastAPI, Node.js, Express, React, Flask, Next.js
- **Backend & APIs:** RESTful APIs, API Design, Authentication, Authorization, Data Pipelines
- **Databases:** PostgreSQL, SQLite, Database Design, Query Optimization
- **Cloud & DevOps:** AWS (EC2, RDS, S3), Docker, Nginx, Linux, CI/CD, GitHub Actions
- **Data & Analytics:** Polars, Plotly, Machine Learning, Tableau, Power BI
- **Tools:** Git, GitHub, VS Code

EXPERIENCE

Software Engineer – Full-Stack   **Sep 2025 – Present**
BYU Silver Fund – Student Investment Fund, Provo, UT
- Develop and maintain a production full-stack web platform using FastAPI, React, PostgreSQL, and Polars
- Design and implement RESTful API endpoints supporting portfolio analytics, reporting, and data exports
- Architect ETL pipelines to automate data cleaning and processing of financial datasets using Polars, streamlining backend performance and optimizing PostgreSQL query efficiency
- Build and refine frontend components while resolving UI, API integration, and data consistency issues
- Manage application state and secure configurations using environment variables, ensuring seamless transitions between development and production for FastAPI services

IT Service Desk Technician   **Aug 2025 – Nov 2025**
BYU College of Life Sciences, Provo, UT
- Diagnose and resolve hardware, software, and network issues across Windows, macOS, and Linux systems
- Support 200+ users through a ticketing system while maintaining system uptime and reliability
- Document troubleshooting workflows and technical procedures to improve issue resolution consistency

Technology Support Intern   **Jun 2025 – Aug 2025**
Nye County School District, Pahrump, NV
- Install and configure network switches and infrastructure across multiple school sites
- Manage user accounts, system backups, and routine IT maintenance
- Create technical documentation and onboarding guides for IT operations

PROJECTS & COMPETITIONS

- **Huus Cleaning Platform | 2025**: Built a full-stack web application using Node.js, Express, PostgreSQL, and Tailwind, implemented backend routing and admin workflow
- **Ella Rises Nonprofit Platform (INTEX) | 2025:** Built a full-stack, multi-role web platform using Node.js, Express, PostgreSQL, AWS, and Nginx with role-based authentication, dashboards, and event registration
- **EY Technology Risk Case Competition | 2025**: Analyzed system logs, penetration test results, and network diagrams to recommend technology risk mitigations
- **Algorithmic Trading Bot:** Developed a Python-based trading system utilizing **regression analysis** to predict price movements for specific cryptocurrency assets, achieving a ~12% backtested return

LEADERSHIP & SERVICE

- **Volunteer Representative (Tagalog & English), Philippines | 2022–2024:** Led teams of up to 12 individuals and coordinated community service projects
- **Eagle Scout, Boy Scouts of America | Aug 2019:** Planned and led a community service project improving emergency access by repainting fire hydrant curb markings, coordinated volunteers, materials, scheduling, and safety standards