

ZACHARY SWART

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Portfolio Website

EDUCATION

B.S. IN BUSINESS ANALYTICS | GPA 3.9

Brigham Young University – Idaho

Jan 2024 – Dec 2027

Rexburg, ID

RELEVANT COURSES: SQL for Analysts, **Data Science**, Spreadsheet Analysis, **Business Analytics**, & Statistics with R

ANALYTICAL EXPERIENCE

- **Power BI:** Analyzed 1,000+ investment funds and **identified top 5 recommendations** using **Power Query transformations, DAX calculations, and AI-assisted optimization**, producing a client-facing retirement presentation with clear performance metrics and actionable insights.
- **Excel:** Delivered **20+ business-focused projects** (each in under 24 hours) by leveraging **AI tools** with **VBA, XLOOKUP, PivotTables, Power Query, and advanced formulas** to automate processes and solve real-world business problems.

PROFESSIONAL EXPERIENCE

SQL TEACHING ASSISTANT

Brigham Young University – Idaho

Apr 2025 – Present

Rexburg, ID

- **Improved the SQL proficiency of 30+ students** through individualized tutoring, emphasizing core concepts such as **JOINS, CTEs, window functions, CASE statements, and subqueries**.
- Redesigned and **modernized 4 exams and 14 assignments using AI tools** and query auditing to improve question clarity, query realism, and instructional consistency.

SUCCESS MENTOR & SURVEY RESEARCHER

Brigham Young University – Idaho

Jan 2025 – Present

Rexburg, ID

- **Increased data validation efficiency by 400%** (reduced 1 hour to 15 minutes) by utilizing **AI tools in Excel VBA** and developing an **analysis report** which automated error detection and reduced manual entry.
- **Achieved 98% satisfaction rating** across **300+ student appointments** by implementing excellent customer service skills, advising clear and reasonable solutions, and providing honest client feedback.
- Developed **3 dynamic Power BI dashboards** based on a Qualtrics survey I created to measure student confidence, satisfaction, and appointment effectiveness to surface **key indicators and actionable insights**.

TECHNICAL PROJECTS

- **Crypto Miner:** Achieved **100%+ ROI by building 3 cryptocurrency mining rigs** and optimizing hash rates through GPU overclocking, command-line configuration, and modern blockchain strategies.
- **Python Automation:** Engineered a pipeline that **scraped public metadata**, processed and reorganized movie folders, consolidated subtitles, validated file structures, and generated standardized assets showcasing skills in Python scripting, web scraping, **ETL workflows, file I/O automation, and data processing**.
- **Portfolio Website:** Built and deployed a personal portfolio website in **under 12 hours** using **VS Code, Tailwind CSS, GitHub, and AI-assisted development**, demonstrating rapid prototyping and frontend design skills.
- **Home Server:** Built server and created an environment with **TrueNAS**, supported by **AI querying** (ChatGPT, Claude, Gemini), which enabled **application hosting**, SMB file sharing, and secure service management while applying core networking, cybersecurity, and system administration principles.

SKILLS & LANGUAGES

Excel | SQL | Power BI | Tableau | Python | JavaScript | HTML | CSS | R | Linux