

Steve J. Franz

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SUMMARY

Experienced Math and Computer Science educator transitioning into **remote software development**, with over 15 years of technical curriculum design experience in high school and college settings. Proven ability to build and deploy full-stack applications using Flask, SQLite, and JavaScript. Skilled in system-level problem solving, backend development, and delivering clean, scalable code. Seeking a **remote software developer position** that leverages backend, infrastructure, or cloud skills.

EDUCATION

Bachelors of Science | Computer Science (*Expected 2027*)

Western Governors University, Salt Lake City, UT

Graduate Certificate | Mathematics (Statistics Focus)

Youngstown State University, Youngstown, Ohio

Bachelor of Science | Mathematics - Secondary Education

Youngstown State University, Youngstown, Ohio

Master of Science | Education

Westminster College, New Wilmington, Pennsylvania

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Bash, Swift, Objective-C (prior)
- **Tools & Frameworks:** Flask, Git, Docker, SQLite, Jinja, REST APIs
- **Concepts:** Backend Development, Network Architecture, Systems Programming, Cloud Fundamentals
- **Certifications:** CompTIA A+ (2025–2028), CCNA (2011–2015)
- **Familiar With:** Linux CLI, Version Control (Git/GitHub), CI/CD basics, Performance Optimization

EXPERIENCE

Mohawk School District, Bessemer, PA

Student - Accelerated Computer Science Bachelor's and Master's Degree

SEPT 2025 - PRESENT

- Pursuing advanced coursework in computer science with a focus on artificial intelligence, machine learning, and backend systems.
- Building on a strong foundation in programming and mathematics to deepen knowledge of algorithms, data structures, and system design.
- Developing independent coding projects that apply concepts in web development, server-side logic, and infrastructure to practical problems.
- Strengthening skills in clean, efficient software design with an emphasis on scalable, backend-focused solutions and emerging AI applications.

Mohawk School District, Bessemer, PA

Math & Computer Science Teacher | Help Desk

AUGUST 2009 - PRESENT

- Teach dual-enrollment Calculus I (MATH 0220) and CS courses through University of Pittsburgh's College in High School Program.
- Teach Computer Hardware, Game Design (Godot), and Web Development classes, including CS 0012, CS 0134, and CS 0334 through University of Pittsburgh's College in High School Program.
- Provide technical support, manage computer labs, and assist with infrastructure during summer months.

Youngstown State University, Youngstown, OH

Part-Time Faculty - Statistics / College Algebra

JANUARY 2008 - AUGUST 2020

- Instruct college-level Statistics and Algebra, integrating ALEKS learning software.
- Supported math success for undergraduates through a problem-solving and conceptual focus.

PROJECTS & APPLICATIONS

Syntax Gym syntaxgym.replit.app

A Flask-based coding platform for teaching HTML/CSS/JavaScript. Built with a systems mindset:

- Modular Flask backend using SQLite and Jinja templating
- Real-time syntax validation with custom input parser
- Designed for scalability, session tracking, and future AI-powered features

Quiz Playground quizplayground.replit.app

Dynamic Flask web app with a focus on backend performance and optimization:

- Integrated authentication, dynamic assessments, and real-time feedback
- Designed and implemented database schema and caching logic
- Focused on deployment, routing, and RESTful architecture

ADDITIONAL LINKS

- GitHub: <https://github.com/sfranz2422>
- LinkedIn: <https://www.linkedin.com/in/steve-j-franz-3538942b/>