

# TARIQ WILLIAMS

+1 (786) 702-3121 | tarblux12@gmail.com | [github.com/Tarblux](https://github.com/Tarblux) | [tariqwill.com](https://tariqwill.com)

## EDUCATION

Kalamazoo College, Kalamazoo, MI

Bachelor of Arts, Mathematics, Economics | *Cum Laude*

Minor: Computer Science

2019- 2023

GPA: 3.6/4.00

## SKILLS

**Programming Languages:** Python, Rust, TypeScript, Scala

**Frontend Technologies:** React, Three.js, Next.js, HTML, CSS

**Backend Technologies:** Node.js, Express.js, Docker, Nginx, SQL

**Cloud Technologies:** AWS, Google Cloud, Cloudflare

**Data Visualization:** matplotlib, ggplot2, tidyverse

**Other:** Git, GitHub Actions, Postman, Figma

## PROFESSIONAL EXPERIENCE

**Software Engineer** | *Flextrade*, Milwaukee, WI

Jul 2023–Present

- Develop features for a python-based calculation service used to deliver risk analytics and financial computations within the Order Management System (OMS).
- Build and maintain gRPC API routines enabling seamless integration of calculation results into the main OMS backend server.
- Optimize calculation service performance by profiling bottlenecks, fine-tuning serialization buffers, and reducing memory footprint to improve throughput and latency of high volume calculations
- Write unit tests for calculation workflows to ensure accuracy and reliability of all calculations

**Teaching Assistant** | *Kalamazoo College Math Department*, Kalamazoo, MI

Jan 2021–Jun 2023

- Helped students by explaining in-class topics and concepts
- Graded homework assignments and exams for undergraduate mathematics courses: Calculus I, Calculus II, Discrete Mathematics and Linear Algebra
- Collated weekly reports of areas for professor to review

**Data Analyst Intern** | *Eagle Medical Labs*, Remote

Jun 2022–Aug 2022

- Compiled blood and urine analysis data such as CBC, Urinalysis, and metabolic panels in Microsoft Excel
- Provided weekly reports on trends in data using Rstudio for data visualization and computation
- Migrated the company's sample inventory database from Microsoft Access to a SQL Database

## PROJECTS

**Three.js Personal Portfolio** | full-stack web application

([GitHub](#))

- Built an interactive 3D environment with React Three Fiber and Three.js, featuring real-time animations and custom 3D components.
- Developed a Node.js + Express.js backend serving live GitHub, chess, and stock data via REST APIs; containerized with Docker and deployed using Nginx.
- Designed a 3D city model and interactive props in Blender with animations and basic physics.
- Designed and implemented custom shaders in GLSL for realistic visual effects within the cityscape.
- Built over 100 reusable React components with glassmorphic design for a seamless user experience.

**Chess Analytics Server** | Flask Server

([GitHub](#))

- Designed and implemented a scalable chess analytics platform using Python, Flask, RabbitMQ, Celery, and PostgreSQL, supporting advanced game and move-level analysis.
- Engineered asynchronous data processing flows with RabbitMQ message queues and Celery workers, optimizing scalability and responsiveness for game ingestion and analysis tasks.
- Developed interactive data visualizations and dashboards for chess performance metrics using React

## SPOKEN LANGUAGES

- **English** (fluent)
- **Spanish** (Professional Proficiency)
- **Patois** (fluent)
- **Korean** (Pre-Intermediate)
- **German** (Beginner)