

# Robert Shirts

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## About

I am a passionate computer science student, with a strong academic record and diverse technical skills. My background working with various programming languages, specifications, and frameworks, along with my experience tutoring and grading, could bring a competent, detail-oriented mindset to any team.

## Education

### Neumont College of Computer Science

Bachelor of Science in Computer Science

Focus: Software Engineering

GPA: **3.82 / 4.00** (President's List)

Expected Graduation: Sep 2025

### Compass Academy

High School Diploma

GPA: **3.70 / 4.00** (Cum Laude)

Graduated: May 2022

## Relevant Skills

### Languages (by proficiency)

- Javascript
- Golang
- Java
- HTML & CSS
- C#

### Technologies

- Docker
- SQL
- MongoDB
- Git
- Java Spring
- Prometheus

### Other Skills

- 100+ WPM
- Arch Linux
- Open API Spec (Swagger)

## Projects

- **Gametrader** – [github.com/robertjshirts/gametrader](https://github.com/robertjshirts/gametrader)
  - Dockerized, Golang Gin based **RESTful** API for offering to and confirming trades for games between users.
  - Implemented **HATEOAS** (RMM lv3), metrics w/ **Prometheus**, dashboards w/ **Grafana**.
  - Load balanced requests between 3 instances with **Nginx**.
  - Integrated **Kafka** and a consumer service to send emails through SMTP requests.
- **Puzzles** – <https://github.com/robertjshirts/puzzles>
  - Dockerized, Golang Gin based E-Commerce **RESTful** API for browsing, selecting, and ordering 3d puzzles (Rubik's Cubes).
  - Full microservice architecture, with a **Traefik** reverse proxy and **Consul** service registry.
  - Employed **OpenAPI** definition-driven development to ensure accuracy across APIs.
  - Integrated **RabbitMQ** and a consumer service, to mimic async, real-time notifications.

## Work Experience

- **Academic Coach** *Neumont College of Computer Science* *Jan 2024 – Current*
  - Graded assignments and projects across various courses
  - Occasionally co-taught lectures
  - Provided one-on-one tutoring for multiple software and math classes, including:
    - **Distributed Systems:** Dockerized RESTful APIs and databases, including reverse proxies and a metrics dashboard.
    - **Scalable Web Apps:** Covered basic HTTP endpoints, authentication and authorization with Java Spring and Spring Security
    - **Discrete Mathematics:** Covered set theory, combinatorics, and modular math.
- **IT Field Work** *Idaho Falls School District 91* *Jun 2022 – Sep 2022*
  - Installed network infrastructure for multiple educational buildings.
  - Made runs for, labeled, organized, and installed hundreds of ethernet cables.