

# Payton Shafer

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## EDUCATION

### CLARKSON UNIVERSITY

#### BS IN COMPUTER SCIENCE AND MATHEMATICS

May 2024 | Potsdam, NY

School of Arts and Sciences

Cum. GPA: 3.67 / 4.0

Computer Science GPA: 3.88 / 4.0

Mathematics GPA: 3.91 / 4.0

## SKILLS

- Java
- C++
- Python
- Javascript
- React
- Django
- MySQL
- C
- Haskell
- CSS
- HTML
- R
- PostgreSQL
- Go
- Node.js
- AWS
- $\LaTeX$
- Assembly

## LINKS

Github:// [paytonshafer](#)

LinkedIn:// [shaferpr](#)

YouTube:// [@paytonshafer4795](#)

## COURSEWORK

### UNDERGRADUATE

Computer Algorithms

Operating Systems

Functional Programming

Cryptography

Database Systems

Full Stack Web-Development

## AWARDS

- 2023 Inducted into Pi Mu Epsilon
- 2022 Fall/Spring - Presidential Scholar
- 2021 Fall - Presidential Scholar
- 2020 Fall - Dean's List

## EXPERIENCE

### EXCELLUS BCBS | DATA INTEGRATION ENGINEERING

Jun 2023 - Ongoing | Rochester, NY

- Design, model, develop, and implement database solutions that enable better data-driven decision making and analytic reporting capabilities.

### CLARKSON UNIVERSITY | CALCULUS/DIFFERENTIAL EQUATIONS

#### UNDERGRADUATE TEACHING ASSISTANT

Jan 2022 - May 2023 | Potsdam, NY

- Facilitated weekly discussions, supporting students with questions on topics learned during the weekly lectures and provided practice problems based on what they were learning in class.
- Administered and graded weekly 10-minute quizzes in a discussion class of up to 30 students as well as keeping track of attendance and grades for the discussion.
- Responsible for maintaining confidentiality of students.

### WEST IRONDEQUOIT CENTRAL SCHOOL DISTRICT | SUBSTITUTE TEACHER

Dec 2020 - Ongoing | Rochester, NY

- Taught kindergarten through eighth grade in classrooms of 20-25 students.
- Responsible for ensuring the continuity of instruction for one to five days based on written instructions given by the teacher.
- Tasks were often given day to day and varied from giving a math lesson to running physical education class.
- Supported students receiving special education services.

## PROJECT EXPERIENCE

### CLARKSON UNIVERSITY | MAJORIZER

Jan 2023 - May 2023 | Potsdam, NY

- As part of a 5-person interdisciplinary (engineering, computer science, and mathematics) team, developed Majorizer, a web application that allows students and advisors to connect and plan out complete 4 year schedules at the university as well as view created schedules.
- Worked on front and back end teams and led the development of both.
- This project's front-end was made using React and the back-end was a Django server with a PostgreSQL database hosted on AWS.
- Primary focus was the forecasting algorithm that was used to generate schedules based on a given major and minor combination as well as setting up API endpoints and managing the database.
- Designed the build and view schedule page and the user authentication system.

### CLARKSON UNIVERSITY | CLARKSON OPEN SOURCE INSTITUTE'S MIRROR

Sep 2022 - Dec 2022 | Potsdam, NY

- Maintained the local mirror site for the Clarkson Open Source Institute.
- The mirror hosts many popular software from Linux distributions to Blender.
- The application is written in Go with HTML, CSS and JavaScript for the front-end.
- Worked with the Go side of the software writing helper functions to enhance the application and maintained the monolithic software for the mirror by ensuring it stays at production level.