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: 3.73 / 4.0
Computer Science GPA: 3.91 / 4.0
Mathematics GPA: 3.92 / 4.0

SKILLS

- Java
- C\C++
- Python
- Javascript
- React
- Django
- MySQL
- Haskell
- CSS
- HTML
- R
- PostgreSQL
- Go
- Node.js
- AWS
- LaTeX
- ERwin Data Modeler
- PL/SQL
- Leadership
- Communication

LINKS

Github:// **paytonshafer**
LinkedIn:// **shaferpr**
YouTube:// **@paytonshafer4795**

COURSEWORK

UNDERGRADUATE
Computer Algorithms
Operating Systems
Functional Programming
Cryptography
Database Systems
Full Stack Web-Development

AWARDS

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

EXPERIENCE

EXCELLUS BCBS | Data Architecture Intern
Jun 2023 - Ongoing | Rochester, NY

- Design, model, develop, and implement database solutions that enable better data-driven decision making and analytic reporting capabilities.
- Collaborate with Solution Architects, Developers, Testers, and Business Analysts to design and implement database solutions.
- Profiles data, identifying/validating table keys and relationships. Validates that Nullability rules can be enforced and that table data types are correct.
- Performs the job functions of the data modeler – identifies and organizes the required data logically and physically and generates optimal build ready DDL. Modeling consists of relational, transactional and dimensional modeling.
- Participates in ETL Design reviews and test case reviews/approach.
- Assists in the development of overall project plans and timelines and reviews Data Architect deliverables with Data Architecture team and project team.
- Populates and maintains technical metadata repositories and documentation.
- Exposure to new technologies like data vault and cloud solutions.

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 and 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.