

# PAYTON SHAFER

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## EDUCATION

### Clarkson University, Potsdam, NY

Bachelor of Science; Double Major in Computer Science and Mathematics

Magna Cum Laude; Presidential Scholar 2021-2024; Dean's List 2020; Pi Mu Epsilon, inducted 2023

## PROFESSIONAL EXPERIENCE

### Skilbi, Chicago, IL

August – December 2023

*Machine Learning Engineer CO-OP*

- Collaborated with cross-functional teams to ensure the deployment and maintenance of AI-powered applications.
- Developed career recommendation applications using OpenAI's GPT-4, prompt engineering, and student data from a MongoDB database and then transformed them into Node.js-based endpoints, enabling easy access and integration.

### Excellus BCBS, Rochester, NY

June – August 2023

*Data Architect Internship*

- Designed, modeled, developed, and implemented database solutions that enable better data-driven decision making and analytic reporting capabilities using Oracle Database, PL/SQL, and cloud solutions like AWS and Azure.
- Performed the job functions of the data modeler – identified and organized the required data logically and physically and generated optimal build ready DDL. Modeling consisted of relational, transactional, and dimensional modeling.

### Clarkson University, Potsdam, NY

January – May 2023

*Majorizer; Team Leader; [www.github.com/paytonshafer/Majorizer](http://www.github.com/paytonshafer/Majorizer)*

- Led a 5-person interdisciplinary team to develop Majorizer, a web application that connects students and advisors.
- Used Waterfall methodology to effectively ensure comprehensive documentation and rigorous testing procedures.
- Primary contributions include developing the forecasting algorithm that creates four-year schedules based on users' major/minor choices, managing database and data models, and crafting API endpoints (GET, POST, and PUT methods).
- Designed and developed the page navigation system and the pages for users to create and view their schedules.

## TECHNICAL SKILLS

**Languages:** JavaScript, Python, SQL, PL/SQL, Java, HTML, CSS, C/C++, Go; **Frameworks:** React.js, Django, Node.js, Express.js

**DBMS:** MySQL, PostgreSQL, Oracle, MongoDB; **Cloud:** AWS: EC2, Lambda, RDS, S3, DynamoDB; GCP: GKE, Cloud Spanner

**Additional:** Docker, Kubernetes, Git/GitHub, CVS, Waterfall, Agile, RESTful APIs, Unix, OOP, Design Patterns, Bootstrap, JWT

## WORK EXPERIENCE

### Irondequoit Central School District, Rochester, NY

December 2020 – January 2024

*Substitute Teacher*

- Taught kindergarten through twelfth grade in classrooms of 8-30 students.
- Instructed classes of all subjects from Math and Science to supporting students needing special education services.

*Grounds Worker*

- Maintained the grounds on properties throughout the district ensuring campus readiness for the upcoming school year.

## EXTRACURRICULAR ACTIVITIES AND HOBBIES

### Clarkson University, Potsdam, NY

- Clarkson Open-Source Institute, Chess Club, Pi Mu Epsilon (Math Honor Society).
- Weightlifting, Hiking, Camping, Learning new technologies, Personal coding projects.

## VOLUNTEER WORK

### Asbury First United Methodist Church, Rochester, NY

August 2014 – June 2020

*Member/Youth Leader*

- Participated in and organized weekly meetings and volunteered at local shelters, food banks, and week-long mission trips throughout the United States.