PAYTON SHAFER

PAYTONSHAFER@GMAIL.COM | (585) 281-7640 | WWW.LINKEDIN.COM/IN/SHAFERPR | WWW.GITHUB.COM/PAYTONSHAFER

EDUCATION

Clarkson University, Potsdam, NY *Expected May 2024*

Bachelor of Science in Computer Science and Mathematics

GPA: 3.92; Presidential Scholar 2021-2023; Dean's List 2020; Pi Mu Epsilon, Math Honor Society, 2023

PROFESSIONAL EXPERIENCE

Skilbi, Chicago, IL

Machine Learning Engineer Intern *August 2023 – December 2023*

- Collaborated with cross-functional teams to ensure the deployment and maintenance of AI-powered applications, fostering a data-driven approach in the career advice and assessment domains using React.js, Node.js, and AWS EC2.
- Developed career recommendation applications using OpenAI's GPT-4, prompt engineering, and student data from a MongoDB database. Transformed into Node.js-based endpoints, enabling easy access and integration.
- Fine-tuned GPT-3.5-turbo for student attribute scoring. Used cleaned student profiles and detailed prompts to enhance visibility of critical student attributes for recruiters in assessing candidates comprehensively and data-driven decision-making.
- Developed an AWS SageMaker-deployed K-nearest neighbors (KNN) model to enhance attribute assessment. Analyzed student data and scores to derive scores for new students from neighboring profiles.

Excellus BCBS, Rochester, NY

Data Architect Intern *June 2023 – August 2023*

- Designed, modeled, developed, and implemented database solutions that enable better data-driven decision making and analytic reporting capabilities using Oracle Database and PL/SQL.
- Collaborate with Solution Architects, Developers, Testers, and Business Analysts to design and implement database solutions.
- Profiled data, identified/validated table keys and relationships. Validated that nullability rules can be enforced and that table data types are correct. Exposed to new technologies like Data Vault 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 generates optimal build ready DDL. Modeling consists of relational, transactional, and dimensional modeling.
- Assisted in the development of overall project plans and timelines and reviews Data Architect deliverables with Data Architecture team and project team while populating and maintaining technical metadata repositories and documentation.

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, REST APIs, Unix, OOP, Software debugging and testing

ACADEMIC EXPERIENCE

Clarkson University, Potsdam, NY

Majorizer; Team Leader; *www.github.com/paytonshafer/Majorizer* *January 2023 – May 2023*

- Led a 5-person interdisciplinary team to develop Majorizer, a web application that connects students and advisors. Majorizer enables them to collaboratively plan out complete 4-year university schedules and view the created schedules.
- Add bullet about planning with waterfall method and documentation, testing and team website(found in github)
- The technology stack includes a React frontend, Django server backend with RESTful APIs, PostgreSQL database hosted with AWS RDS, and JWT for authentication and authorization, facilitating robust academic planning and management.
- 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.

Calculus/Differential Equations Teaching Assistant *January 2022 – May 2023*

- Facilitated weekly discussions, supported students with questions on topics learned during their weekly lectures and provided practice problems based on what they were learning in class and needed extra practice or help on.
- Created, administered, and graded weekly 10-to-15-minute quizzes for a recitation class of up to 30 students while keeping track of attendance and grades from the recitation.
- Maintained the confidentiality of students by ad-hearing to FERPA and Clarkson University standards.