Veerpal Shah

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EDUCATION

The Ohio State University — Columbus, OH
Bachelor of Science in Computer Science with Minors in Communications Technology & Mathematics — *Aug. 2021 – May 2025*
- Dean's List for 5 semesters; GPA: 3.6; Mortar Board National Honors Society; VP of Morrison Siebert Community Council; Soccer Club; Fencing Club; Skydiving Certification

WORK HISTORY

Business Intelligence Development Intern — May 2024 – Aug. 2024
WinSupply — *Dayton, OH*
- Developed a POC for a linear regression model in Python (scikit-learn) to optimize pricing, reducing manual overrides and predicting customer price adjustments. Implemented data processing and model training with pandas and NumPy.
- Streamlined data processes and improved inventory reporting using Python, SSMS, SSRS, PowerBI, and T-SQL. Coordinated with Scrum Master and Product Owner to deliver MVP features within 12 weeks and pushed final product to production.
- Achieved $180K annual freight savings by optimizing logistics (10,000 miles/month at $1.50 per mile) and reduced customer relations workload by 260 hours/year, enhancing satisfaction.

Student Researcher in Artificial Intelligence — May 2023 – Aug. 2023
The Ohio State University, College of Engineering — *Columbus, OH*
- Used large datasets written in TeX to train Fine-Tuned model of ChatGPT to generate natural and relevant responses, used for AI model training and performance evaluation, done by applying concepts from Prompt Engineering.
- Fine-tuned AI models using Python & OpenAI API to generate MATLAB code for animating engineering concepts.
- Collaborated with the team to address data-related technical issues and improve data infrastructure.

Resource Room Student Assistant — May 2023 – Present
The Ohio State University, Student Life — *Columbus, OH*
- Provide support to over 1400 student organizations, and assist student organizations' needs such as delivering office supplies to organizations and accommodating with supply rentals, as well as offering organization structuring support.
- Engage in conversations with clients to specifically identify their needs and deliver accordingly.

PROJECTS

Peer Evaluation Management System | *Ruby on Rails, HTML, CSS* — Apr. 2024
- Engineered a Ruby on Rails-based web application, incorporating robust CRUD operations, MVC architecture, and a custom authentication system, to streamline peer evaluations and grading of presentations, featuring an administrative dashboard for instructors and personalized feedback access for presenters. Developed with team in agile Scrum environment.

Portfolio Website | *Next.js, Tailwind CSS* — Feb. 2024
- Developed a dynamic scalable portfolio website while also implementing client-side routing using Next.js.
- Leveraged Tailwind CSS for responsive and modern UI/UX design. Deployed using Vercel.

SET Game | *JavaScript, Bash, Git* — Dec. 2023
- Worked in a team to develop a game adaptation with hint systems, card selection, PVP abilities, and high-score tracking.
- Used JavaScript to create an interactive GUI, Bash for testing, and Git for source control.

Faculty Webpage Revamp | *HTML5, CSS, Ruby, Middleman* — Nov. 2023
- Revamped OSU CSE faculty member's website with HTML5, CSS, & Ruby-based site generator Middleman.
- Ensured content fidelity, and enhanced design, while adhering to advanced web development standards.

Data Scraping (Bioinformatics) | *Python, Biopython* — Oct. 2023
- Worked with biology researchers at The Ohio State University to extract information regarding DNA processing of certain amino acids from the NCBI Website, using biopython and redirected all extracted data to a database.

EVENTS & INVOLVEMENT

- ASA DataFest 2024 Planning Committee – Involved in planning and organizing this national competition for Ohio State.
- ASA DataFest 2023 Finalists – Used R, Python, and Excel to analyze and visualize a massive set of data relevant to the American Bar Association (ABA) and generate visual representations of a relevant, data-driven story.
- Hack OH/IO 2023, 2022 & 2021, Data I/O 2024 at The Ohio State University – Participated in various challenges including resolving Engie's challenges to create sustainability plans, compile data for dashboards, and generate trend reports.

SKILLS & INTERESTS

Programming Languages: Python, Java, Ruby, JavaScript, HTML/CSS, R, C/C++, MySQL, x86-64
Technology and Frameworks: React.js, Next.js, Bash, Tailwind CSS, Git, Visual Studio Code, JUnit, GNU Debugger, Flask, Swing Framework, Microsoft Office Suite, Linux/Windows Command Line, ParseHub, Vercel, Ruby on Rails
Other: Data Structures & Algorithms, Data Analysis & Visualization, Communications, Soccer