Erik Pfeffer

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EDUCATION

University of Maryland, College Park   **Aug 2021-May 2025**
- **Major:** Computer Science, Bachelor of Science – GPA: 3.8.
- **Minor:** Statistics.
- **Programming Coursework:** Object Oriented Programming, Data Structures & Algorithms, Database Design, Computer Network & Security, Programming Language Technologies and Paradigms, Data Science & Machine Learning.
- **Statistics/Math Coursework:** Applied Probability and Statistics, Sampling Theory, Calculus, Linear Algebra.

SKILLS

Languages/Frameworks: HTML5, CSS3, JavaScript, Python, Java, C, OCaml, Haskell, React.js, Node.js, Next.js, Django.
Tools/Libraries/Databases: MongoDB, MySQL, PostgreSQL, Git, Bash, Linux, NumPy, Matplotlib, Seaborn, Scikit-Learn.

WORK EXPERIENCE

Voya Financial   **Remote**
Software Developer Intern   *May 2023-Aug 2023*
- Constructed Python scripts to generate insightful Excel sheets that identified and reconciled matching financial transactions, significantly streamlining the financial close process, and ensuring data accuracy in reporting.
- Led meetings to present and analyze match sets in Excel and conducted training sessions on the use of the BlackLine software for teammates.
- Contributed to implementing data validation protocols for data integrity and regulatory compliance.

Sigma Phi Delta – Professional CS & Engineering Fraternity   **College Park, MD**
Executive Board Secretary   *Nov 2023-Present*
- Diligently maintained accurate records of fraternity meetings, minutes, and attendance, ensuring transparency and accountability among members.
- Established and sustained a proactive line of communication with the fraternity's national office, providing timely and accurate reporting on chapter activities, membership updates, and compliance matters.
- Designed and implemented an automated attendance recording system for the fraternity, leveraging my technical skills in software engineering to streamline and enhance the accuracy of attendance tracking processes for 100+ members.

UMD College of Computer, Mathematical, and Natural Sciences   **College Park, MD**
Recruitment Ambassador   *March 2022-Present*
- Articulately communicated the rigor and depth of the computer science program to prospective students, showcasing deep knowledge in various CS topics and fostering interest in the curriculum.
- Mentored incoming computer science students, offering guidance and support to help them navigate the program and make the most of their college experience.
- Represented the College of CMNS at local college fairs, conveying technical and social aspects of life as a computer science major at UMD.

SOFTWARE PROJECTS

Portfolio Website: https://e-code804.github.io/portfoliosite/ (for additional information and projects).

Fandango False Ratings Data Analysis
- Conducted a comprehensive data analysis project that compared Fandango's movie ratings with those from Rotten Tomatoes and IMDb, revealing discrepancies in a movies' rating that can mislead the users into ticket purchasing decisions.
- Applied Python and Pandas for robust data manipulation and created visually compelling graphs with Matplotlib and Seaborn to demonstrate rating disparities in Fandango's movie ratings.
- Technologies: Python, Pandas, Matplotlib, Seaborn. View here.

Full-Stack Restaurant Reviewer
- Engineered a full-stack application that allows users to discover restaurants based on price or cuisine preferences as well as the ability to leave ratings and reviews on them.
- Implemented user authentication, ensuring only logged-in user can contribute feedback to the restaurants. Successfully deployed and hosted the application on Vercel for seamless accessibility.
- Technologies: MongoDB, Express.js, React.js, Node.js, TailwindCSS, Next.js, RESTful API. View here.

Hotel Booking Cancellation Model
- Performed an experiment to help determine the factors that may lead to the cancellation of one's hotel reservation.
- Cleaned and filled in missing data using MySQL and utilized R to generate histograms and scatterplots to highlight relationships within the data before creating a linear model to determine the likelihood of the factors influencing the decision to cancel the hotel reservation.
- Technologies: R, MySQL. View here.