Joseph Westhoff

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Experience

Social Change, *Software Consultant* | Remote
Aug 2023 - Present
- Conducted thorough analysis of the app's middleware to fortify defenses against XSS-based attacks and identified potential security vulnerabilities within Node.js code.
- Verified compliance with PCI-DSS standards and enforced adherence to best practices, ensuring comprehensive documentation including README files and thorough commenting.
- Devised a strategic scaling plan for servers, highlighting the advantages of Horizontal and Diagonal Scaling methodologies to optimize performance and accommodate growth effectively.

Gowanus Yacht Club, *Bar Tender and Cook* | Brooklyn, NY
May 2023 - Au 2023
- Managed daily profit calculations with precision and reliably handled cash transactions at the conclusion of each shift, prioritizing security and accuracy.
- Skillfully prepared orders and maintained service standards to guarantee customer satisfaction and loyalty.

UBS, *Branch Service Associate* | New York, NY | Remote
Jul 2022 - Oct 2022
- Efficiently managed data operations including updating spreadsheets and overseeing stock controls with precision and timeliness.
- Demonstrated adeptness in safeguarding client confidentiality while executing responsibilities in a remote work environment.
- Fostered seamless communication and collaboration within the team to consistently deliver high-quality outputs to our supervisor.

Calculus Tutor, *Private Tutor* | Fairfield, CT
Sep 2021 - May 2022
- Effectively simplified complex concepts, facilitating comprehensive understanding among students through clear and accessible explanations.
- Successfully elevated my student's math proficiency, transforming grades from D-level to A-level through targeted instruction and support.
- Provided comprehensive assistance with homework assignments, adeptly prepared my student for tests, and fostered deep comprehension of the subject through personalized guidance and mentoring.

Education

3.61/4.0 **BS in Computer Science and Mathematics**, *Fairfield University* | Fairfield, CT
2020-24

Pi Mu Epsilon: National Mathematics Honor Society.
Upsilon Pi Epsilon: Secretary of the Fairfield University branch of the National Computer Science Honor Society.
Courses: Data Structures | Linear Algebra | Design and Analysis of Algorithms | Probability Theory | Discrete Mathematics | Logic | OS | Multivariable Calculus

Skills

Programming	Python, C/C++, Java, LaTeX, HTML, CSS, JavaScript, Fluttr
Software	Linux, Cisco Packet Tracer, Oracle VM, Ubuntu, Wireshark, PyTorch, Scikit-learn, Matplotlib
Technical Skills	Complexity Theory, Programming Languages, Data Structures, Operating Systems
Soft Skills	Time Management, Problem-solving, Leadership.

Projects

Electro-Pneumatic Air Shock Optimization System
Sep 2023 - Current
Capstone Project
- Developed firmware utilizing Raspberry Pi and Arduino to adjust the pressure of air shocks while driving.
- Designed Python code to monitor voltage read from sensors to determine the proper pressure needed for various environments.
- Utilized Matlab to calculate the proper pressure needed.
- Implemented a user interface for the driver to set the pressure as needed.

AI Document Simplifier
Nov 2023 - Dec 2023
Personal
- Developed an AI software that scans complex papers such as legal or scientific documents and simplifies them so that anyone can understand them.
- Utilized BART along with its tokenizer and generalization tools to break down the text and used a pipeline for simplification
- Created a web application using Flask for remote deployment.

Company Website
Bridgeport, CT
Greater Bridgeport Community Enterprises
Sep 2021 - Dec 2021
- Coordinated with the CEO of Greater Bridgeport Community Enterprises to produce a quality website that displays their work.
- Created a comprehensive README and a user manual so that the website is easy for anyone to upkeep.

Languages

English	Professional proficiency
French	Intermediate proficiency