Abigail Poropatich
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OBJECTIVE

Analytical professional with a background in physics, computer science, and aviation. Skilled in extracting insights from complex data, bridging technical and non-technical communication, and solving multifaceted problems. Passionate about intelligence analysis and strategic decision-making.

EDUCATION

Clemson University   August 2020 - December 2024
B.S. Physics & *B.S. Computer Science*
- Dean's List Academic Achievement Award and ABET Certified

WORK EXPERIENCE

Technology Analyst - Developer   January 2025 - Present
Deloitte Consulting
- Software developer under public trust for the USDA ReConnect project following Agile and Scrum practice for functional requirements and government client compliance.
- Program foundation in Salesforce with front end development in JavaScript and backend object maintenance in Apex.

Avionics and Systems Software Engineering Intern   June 2024 - August 2024
Textron Aviation
- Developed UI functionality for flight simulator control panel under US Navy contract, utilizing DevExpress and C#.
- Establishing system requirements and engineering backend logic to connect avionics and monitor simulator activity.
- Lead a team of engineers through aircraft and avionics acceptance testing and hardware integration on RedHat/CentOS.

Lead Computer Science Undergraduate Teaching Assistant   August 2023 - August 2024
Clemson University
- Delivered lectures on object-oriented principles and C/C++, while supervising two lab sections of 25 students.
- Led a team of five teaching assistants to streamline educational processes and foster a supportive learning environment.

PROJECTS AND RESEARCH EXPERIENCE

Lead Investigator   August 2023 - December 2024
PTSD Therapy Using Anthropomorphic Language Model
- Pioneered therapeutic tool specialized for Veterans in rural communities managing PTSD
- Deployed a LLM utilizing OpenAI's GPT-3.5, fine-tuned using JSONL scripts and actively managed on Azure.
- Front end development using CSS3/HTML5 with the backend driven by JavaScript via Node.js controlled via GIT

RigRewards Application   August 2024 - December 2024
Front End Web Development
- Full stack engineer responsible for MySQL database management, integrating multi-factor authentication (MFA) for secure access control.
- Built a responsive 25+ page website leveraging JavaScript, React, and Node.js, maintaining UX fluidity through reusable components and accessible design. Prioritized front-end development to ensure a seamless user experience, aligned with modern web standards.
- Implemented dynamic routing and state management to enable efficient page loading and real-time data updates

TECHNICAL SKILLS

Microsoft Suite, C, C#, C++, Python, JavaScript, Node.js, Java, HTML, CSS, Azure, GIT, Agile Methodologies, Postman API, AWS, Wireshark, Statistical Analysis, Theoretical and Applied Calculus, Scientific Writing, User Requirements, Analytical Modeling, System Requirements, Network Security, REST API, PyTorch, scikit-learn, Git Bash, FAA procedure