Omid Mohammadi

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EDUCATION

BUCKNELL UNIVERSITY | Bachelor of Science in Computer Science | Minor Studio Arts   **Lewisburg, PA | May 2025**
- Awarded a 4-year scholarship for academic excellence

EXPERIENCE

Research Data Analyst | Bucknell University & Mozilla   **Lewisburg, PA | Feb 2024 – Aug 2024**
- Developed data dashboards and visualizations for large-scale datasets (280,000+ records) using Python (Pandas, Matplotlib) and Tableau.
- Conducted statistical analysis and data mining to uncover trends in correctional mental health and provide insights.
- Designed automated data pipelines to streamline reporting processes and improve data accessibility.

Digital Services Consultant Intern | Small Business Development Center   **Lewisburg, PA | Feb 2024 - Present**
- Analyze digital traffic patterns and conduct website audits for local businesses, providing data-driven strategic recommendations to optimize digital engagement and support business growth.
- Developed websites for local businesses and startups using platforms including WordPress, Wix, and React.
- Worked with clients to improve accessibility standards (W3C WAI) and implement automated reporting solutions.

Product Owner - Medical AI Education Tutor | Geisinger Hospital & Bucknell University   **AUG 2024 – Present**
- Led the development of an AI-powered feedback tool for medical educators, leveraging machine learning and NLP (TF-IDF, Naïve Bayes), with an accuracy of 80%.
- Developed a modern, responsive front-end using React.js, Tailwind CSS, and Vite, connected via a Flask RESTful API to a Python-based backend.
- Integrated the model with Azure-based & Firebase cloud services for scalability and performance improvements.

Geospatial Data Analyst | Bucknell University   **Lewisburg, PA | May 2023 - August 2023**
Hazara Genocide Uncovered | *https://arcg.is/0Or01P0*
- Led an independent digital research project on the genocide of Hazaras in Afghanistan, compiling and analyzing quantitative and qualitative data from over 350 sources on 70+ attacks to identify trends and assess impact.
- Developed an interactive website (15,000+ views) using ARCGIS and TimelineJS, visualizing geographical attack patterns and providing contextual policy analysis.
- Applied quantitative and qualitative analysis to assess trends and impact, contributing to data transparency efforts.

Accessibility Research Intern | Bucknell University & Geisinger Hospital   **Lewisburg, PA | May 2022 - August 2022**
- Improved "Get2Goal" mobile app's accessibility score by 70% through comprehensive audits and W3C WAI guideline implementation, improving user experience based on research and user feedback.
- Conducted strategic user interviews with accessibility experts to refine app design and functionality.

INVOLVEMENT

President | Global Student Council | Bucknell University, PA   **AUG 2022 - Present**
• Launched Bucknell's first International Festival, attracting hundreds of families and students.
• Organized multicultural events and cultural showcases, fostering cross-cultural understanding and ties.

Vice President | (ACM) Association for Computing Machinery | Bucknell University, PA   **AUG 2023 - Present**
 • Orchestrated a welcoming campus environment, organized educational events with guest speakers, and enhanced networking opportunities to foster a cohesive and thriving computer science community alongside other exec members.

SKILLS

Data Analysis & Visualization: SQL, Python (Pandas, NumPy), Tableau, Power BI, Matplotlib, Statistical Analysis, Data Mining
Programming: Python, Java, C, JavaScript, R, HTML, CSS, React.js, Vite, Tailwind CSS, RESTful APIs
Software & Additional Skills: Microsoft Office Suite, Adobe Suite, Google Cloud Platform (Azure, Firebase), Agile, Scrum, GitHub, GIS, WordPress, Wix, Unreal Engine
Marketing & Research Concepts: Google Analytics, SEO/SEM fundamentals, Web Performance Tracking, A/B testing