Kritan Aryal

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EDUCATION AND CERTIFICATIONS

The University of Toledo   **Anticipated Graduation Date: May 2025**

Bachelor of Science: Computer Science and Engineering, **GPA 3.768**

- President's List (Summer 2021, Fall 2022, Spring 2023)
- Dean's List (Summer 2021, Fall 2021, Fall 2022, Spring 2023)
- Russell J. Ebeid Scholar (2023)

Certifications: Dale Carnegie Certification, Six Sigma: Green Belt, Career Essentials in Software Development

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EXPERIENCE

First Solar Inc.   **August 2023 – Present**

Manufacturing Engineering Intern

- Conducted daily throughput analysis utilizing data from SQL databases within JMP statistical software to achieve throughput goals of 99.89%. Regularly presented findings and insights to the team.
- Designed and deployed customized JMP Scripts to facilitate hourly data monitoring of six newly installed water flow meters in liters per minute, significantly improving critical process tracking.
- Engineered specialized tools using SolidWorks, enabling metal arms of automated machines to swing inside, granting workers safe access to cleaning procedures. Pioneered a solution ensuring heightened safety standards within the workspace.
- Implemented a Python-based automated parts ordering system for hot swap cabinets, streamlining the procurement process by seamlessly placing weekly orders and enhancing efficiency and accuracy in part management.

The University of Toledo Foundation   **September 2021 – May 2022**

Engagement Ambassador

- Initiated effective communication with university alumni to gather insights on their university experiences. Successfully persuaded alumni to actively participate in and contribute to the foundation, fostering a stronger sense of community support.
- Collaborated closely with multiple clients daily, demonstrating strong teamwork and communication skills. Played a pivotal role in conducting a successful fundraising campaign, raising $1.9 million during the University of Toledo's Giving Day.

SKILLS

Programming Languages: Python, Java, JavaScript, C, C#, C++, R, JMP Scripting language
Software Skills: Figma, MATLAB, JMP, Power BI, Minitab, SQL Server Studio, Visio, GitHub, Excel, PowerPoint, SolidWorks
Industry Skills: Statistics, Design of Experiment, Scrum Agile, FMEA, Root Cause Analysis, Control Pans, DMAIC
Soft Skills: Problem-Solving, Communication, Project Management, Customer Service, Time Management, Work Ethic

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PERSONAL PROJECTS

Roll the Ball Game

- Designed and developed a basic ball-rolling game using Blueprint and C++ in Unreal Engine 5, requiring users to follow a precise set of Instructions to achieve victory. Demonstrated proficiency in programming and user engagement.

Personal Website

- Designed a personal website using HTML CSS and React, featuring comprehensive information about my background, projects, and resume. Demonstrated proficiency in web design, front-end development, and content presentation.

Geometric Analysis

- Developed a program in Java to read and process files containing coordinates of triangles, rectangles, and points.
- Implemented algorithms to determine the relation between shapes, checking for containment and overlap. Presented results in tabular format, including the percentage of points inside the shape, showcasing strong data analysis abilities.

LEADERSHIP ACTIVITIES

- Secretary, Nepali Student Organization, University of Toledo
- Member of the 100s group, Nepal