Yesui Ulziibayar

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EDUCATION

University of Wisconsin-Madison, Madison, WI   **Graduated May 2024**
Bachelor of Science in Computer Science and Data Science, Certificate in Digital Studies, **GPA: 3.73/4.00 (Dean's List Honoree)**

Relevant Coursework: : Programming Languages & Compilers, Operating Systems, Algorithms, AI, Deep Learning for Comp Vision, User Interface Development, Machine Organization and Programming, Computer Graphics, DS Modeling II, Data Ethics & Policy

SKILLS

Programming Languages: Python, JavaScript, Java, R, SQL, C, C++, HTML, CSS
Developer Tools and Libraries: ASP .NET Web APIs, Docker, Linux, GCP, Unity, Git**,** React.js, React Native, Node.js, Three.js, WordPress, Yoast SEO, CMS, Postman, Figma, Bash, JUnit, Selenium, TestNG, Jupyter, PyTorch, Tensorflow, Pandas, NumPy, Scikit-Learn
Languages: English (Fluent), Mongolian(Fluent), Mandarin (Conversational)

EXPERIENCE

Done For You Tax, *Tech Support Representative / Bookkeeper, Remote*   **January 2025 - Present**
- Spearheaded seamless onboarding for 15+ clients daily, troubleshooting complex system configurations, invoicing issues, and service discrepancies to ensure an optimal user experience.
- Diagnosed and resolved high-priority technical concerns, optimizing financial processes and enhancing system efficiency.
- Managed and streamlined financial transactions, maintaining error-free bookkeeping records and improving transaction accuracy.

Wisconsin Historical Society, *Web Developer**,** Madison, WI*   **February 2023 - April 2024**
- Revamped 14+ core websites and managed content for 100+ subpages, elevating digital experiences for Wisconsin's historical sites and programs.
- Implemented API-driven analytics, leading to a 15% boost in web performance, user engagement, and load time optimization.
- Automated key workflows with Python, reducing manual tasks by 25% and enhancing productivity.

US Cellular Corporation, *Network Core Integration Engineering Intern**,** Schaumburg, IL*   **June 2023 - August 2023**
- Optimized IMS core network infrastructure, improving service quality and enhancing network reliability for millions of users.
- Delivered a high-impact presentation to 30+ VPs and senior managers, securing approval for critical emergency communication updates that strengthened public safety protocols.

Secure AR for Improved Visualization in First Responder Scenarios (EasyVizAR) | *Supervisor: Professor Banerjee*
- Developed an innovative VR-based navigation and communication tool for firefighters using Unity and C++, integrating real-time YOLO v3 image segmentation for enhanced situational awareness.
- Engineered seamless integration of AI-powered image processing into VR headsets, overcoming key visualization challenges in high-stakes environments.

PROJECTS

Custom Log-Structured File System with Filesystem in Userspace (FUSE, C, Linux)
- Designed and implemented a high-performance, single-threaded log-structured file system using FUSE, creating a custom algorithm to optimize data handling and ensure robust log file management.
- Engineered a scalable file system architecture, leveraging deep knowledge of operating systems to enhance low-level data management and system efficiency.

Java Compiler for Language Created Through Context-Free Grammar (Java, JavaCUP, JLex)
- Engineered a fully functional Java compiler, defining language syntax using context-free grammar for structured code analysis.
- Developed lexical analysis and syntax parsing algorithms, ensuring accurate code interpretation and optimized compilation.

Fully Convoluted One-Stage Object Detection Model With Non-Max Suppression (Pytorch, TensorFlow, OpenCV)
- Engineered a high-precision FCOS object detection model, incorporating techniques such as Feature Pyramid Networks (FPN), and Non-Maximum Suppression (NMS) to optimize image classification and bounding box prediction on the PASCAL VOC.
- Achieved 80%+ Mean Average Precision (mAP) by leveraging techniques like feature pyramids and efficient inference methods, improving detection accuracy and robustness across various object scales.