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REX WANG

SUMMARY

As an undergraduate Computer Engineering student at Purdue University, I am seeking a summer internship that allows me to utilize my skills in computer programming, website design, and machine learning. I have experience in full stack web development, natural language processing and large language model AI modeling, C/C++ programming, and game design.

SKILLS & ABILITIES

- *Software:* C#, C, Golang, Kubernetes, Docker, Argo, SQL, Microsoft Azure, Azure Functions, Blazor, Python, JavaScript, React, MATLAB, Verilog, LTspice, Visual Basic, AutoCAD, Rhino, CSS, HTML, Unity, GitHub, Linux
- *Hardware:* FPGA, Dynamometer, Wind tunnels, Oscilloscope, Function Generator
- *Language:* English (Native), Mandarin (Intermediate), Japanese (Beginner)
- *Activities:* IGDC

PROFESSIONAL EXPERIENCE

INTERNSHIP, COREWEAVE, SPRINGFIELD, NJ   FALL 2022

- Optimized the "Qilin-Lit-6B" Large language model, which was derived from the "GPT-J-6B" LLM and trained on web novels, through fine-tuning.
- Collaborated on the containerization of Bittensor (a machine learning tool for blockchain applications).

SUMMER INTERNSHIP, MARQUIS ENERGY, HENNEPIN, IL   SUMMER 2022

- Designed and implemented five dashboards using React-JS and REST API, integrating Azure AD authentication and C# Azure Functions for the backend, which was powered by Azure SQL.
- Upgraded several dashboards and SQL databases to modern standards, including migration from legacy internal code.
- Automated various company processes through the development of Python scripts.
- Contributed to the development of the company's internal C#-Blazor website.

SUMMER INTERNSHIP, BROAD-OCEAN MOTORS, WESTMONT, IL   SUMMER 2019

- Developed an Android application that utilized Bluetooth connectivity to a microcontroller, streamlining the testing process.
- Participated in the configuration and testing of motor units to identify and record critical faults.
- Evaluated motor performance using a Magtrol dynamometer and in wind tunnel experiments.

- Designed 3D printed cases for microcontrollers to facilitate port access and improve durability during testing.

CSVtoOFX - Unity/C#, PERSONAL PROJECT   SUMMER 2021

- Created a conversion software that transforms bank statements into OFX files, enabling the automated transfer of transaction data from banks to local software (such as MS Money).
- Implemented a file management package to enable the program to read and write to the local file system.

AquaCat (Android Phone Game) - Unity/C#, PERSONAL PROJECT   SUMMER 2021

- Explored concepts of procedural generation to create an automatic level generation system.
- Optimized game using profiling tools to allow for compatibility with multiple platforms at maximum performance

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EDUCATION   **PURDUE UNIVERSITY, WEST LAFAYETTE, IN, COMPUTER ENGINEERING**   2020-2024

- Bachelor of Science in Computer Engineering (2024)
- Relevant Coursework: Advanced C Programming, Signals and Systems, Python, Advanced Circuit Fundamentals, Microprocessor Systems, Data Structures, Object Oriented C++
- Cumulative GPA: 3.5/4.0