LOKESH DAS

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EDUCATION

Missouri University of Science and Technology May 2028
B.S. in Computer Science | B.S. in Computer Engineering **GPA: 4.0**

Coursework: Data Structures, Intro to C++ Programming, Computational Solving, Computer Organization, Circuits I, Microcontrollers and Embedded Systems, Computer Organization

EXPERIENCE

Research Assistant Sept 2024 - Present
Missouri S&T Kummer Institute Center for AI & AS Rolla, MO

- Leveraged Ray Tune to automate hyperparameter tuning and training pipelines, enhancing model accuracy by 12% on datasets including CIFAR10, CIFAR100, and TinyImageNet.
- Resolved over 10 critical bugs through 100+ testing of image and LLM models, increasing model stability.

Coding Lead, Electronics and DAQ Sub-Team Aug 2024 - Present
Missouri S&T Miner Baja Design Team Rolla, MO

- Engineered an Arduino-based speedometer that processed real-time GPS data, achieving 98% measurement accuracy for the team's competition vehicle.
- Developed a long-range LoRa telemetry system that streamed 5 sensor data points to a live dashboard, directly leading to improved vehicle diagnostics and race strategy.

Software Developer Job Simulation Aug 2025
Forage: Wells Fargo | Quantium Online

- Architected a relational database schema and ERD for a new financial system, implementing the core data model in Java to provide the backend foundation for real-time portfolio tracking.
- Created a Dash application and an automated testing pipeline using Pytest and Bash, enabling a client to analyze the impact of price changes on sales and profitability.

PROJECTS

Registered ALU Design

- Architected a hierarchical 4-bit registered ALU in Quartus, designing and integrating core components including selectors, logic/arithmetic units, and an accumulator.
- Validated all arithmetic and logic operations through rigorous simulation in ModelSim and subsequently confirmed functionality by deploying the final design to an FPGA development board.

Up/Down Counter & Timer

- Created a microcontroller project on an ATmega324pb platform, writing initial features like an up/down counter and alarm system in pure Assembly language.
- Devised a new countdown timer in C, utilizing hardware timers and interrupts for precise delays and waveform generation for an audio alarm.
- Integrated a hardware user interface with multiple push buttons (for count, mode, and reset logic) and binary output to LEDs.

SKILLS

- **Languages:** C, C++, Assembly, Python, Java, SQL, Bash, Haskell
- **Hardware & Embedded:** Microcontrollers (ATmega324pb), Microchip Studio, ModelSim-Altera, Quartus II, Arduino, Digital Logic Design, Soldering, Oscilloscope, Sensors
- **Software & Tools:** Git, Pandas, Jupyter, Dash, pytest, Selenium, Data Processing, Relational Databases, REST API, AWS
- **Professional:** Leadership, Teamwork, Project Management, Communication, Event Management