

Satish Parajuli

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EDUCATION

University of Texas at Dallas, Richardson, TX

Expected May 2026

Bachelor of Science, Computer Engineering

Related Coursework: Computer Arithmetic, Object-Oriented Programming, Computer Architecture, RC, DC, RF, & AC Circuits, Low-level Programming Languages, Machine Language, CMOS, NMOS, Embedded Systems, Amplifiers, Analog Filters

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, HTML/CSS, SQL, Verilog, MIPS/Assembly, MATLAB, C++, C, Swift, Git, PHP
Frameworks/Tools: Visual Studio Code, AMD Vivado, Microsoft Office, Arduino, Oscilloscope, Waveform Generator, GitHub, TinkerCAD

PROJECTS

Calorie Tracking Application, Personal

Tools Used: Java, Swift

May 2024-Current

- Developed a calorie tracking application that uses ingredient averages to calculate calories with a 15% margin of error
- Validated the algorithm through personal use, aided in 0.5lb loss per week for two months
- Programmed using Java for the calculator algorithms and used the Swing widget to develop the GUI
- Currently in the process of turning it into an Apple Store application through the use of Swift

Portfolio Website, Personal

Tools Used: HTML/CSS, JavaScript

June 2024

- Developed a portfolio website using HTML/CSS along with JavaScript for the transitions
- Achieved a 100 and a 97 for Google PageSpeed Insight score for mobile and desktop versions respectively
- Hosted on homemade Raspberry Pi server and on GitHub pages

Restaurant Manager Algorithm, Personal

Tools Used: C++

April 2024

- C++ program that manages a restaurant and (almost) all of its functions
- Developed through the use of arrays, pointers, multiple stream classes, and enums with a time complexity of $O(n)$
- Encompasses all 4 of the main concepts learned in Computer Science I

Arduino Rectifier Circuit, Personal

2023

August

Tools Used: TinkerCad, Arduino Uno, C++

- Developed a homemade inverter circuit through the use of TinkerCad schematics, Arduino Uno and C++ in order to use a DC power source, such as a battery, to charge a phone
- Achieved a conversion efficiency of 82%, reducing power loss and improving efficiency
- Has been used to power phones and earbuds without the use of a conventional rectifier

Raspberry Pi Server, Personal

Tools Used: Linux, Ubuntu

May 2023

- Made a server through the use of a Raspberry Pi 3 along with the use of Ubuntu 24.02 and Linux, used to host my website
- Connected an external drive with 256gb of network-attached storage (NAS) in order to limit memory failure
- One week spent troubleshooting that resulted in making a custom template for WordPress

EXPERIENCE

Outlier AI

Artificial Intelligence Trainer

Frisco, TX

May 2024-Current

- Used a comprehensive system to classify the AI's responses to various complex types of prompts
- Programmed the AI in order to meet the requested specifications of four clients

Home Depot

Customer Service Clerk

Frisco, TX

April 2023-September 2023

- Processed orders, some worth over \$5,000 from various clients and contractors
- Extensive experience in teleselling in order to complete orders

ACTIVITIES

Dallas Formula Racing

Aerodynamics

Richardson, TX

Aug 2023 – Current

- Used a multitude of aerodynamic simulations on Siemens StarCMM+ in order to reduce drag and increase downforce
- Raised over \$11,000 in donations to fund our projects

Nepali Club UTD

Member

Richardson, TX

Aug 2023 – Current

- Helped to host over five events that taught and preserve the Nepali culture