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Education

Techno College Of Engineering Agartala

July 2023

Bachelor of Technology in Computer Science & Engineering (SGPA: 8.55 / 10)

Agartala, Tripura

- **Relevant Coursework:** Data Structures and Algorithms (C++), Digital Logic & Microprocessor, Discrete Mathematics, Computer Organization & Architecture, Computer Networks, Database Management Systems, Compiler Design.

Experience

Strategic Research Insights LLP

August 2023 – Present

Programmer Analyst

Hyderabad, Telengana

- Designed various market research surveys using tools like Sawtooth Light house studio and programming languages like Javascript, Perl.
- Implemented various R&D setups, including a seamless connection between Dropbox from sawtooth lighthouse surveys using javascript. Producing heatmap using eye tracking that helps track the points of interest of the respondent taking the survey.
- Assisted in building an AI chatbot that uses the openAI's Chatgpt Model to ask dynamic questions to respondents taking the survey.

Projects

Beetle Kernel | C, Assembly, Makefile

- Developed a custom android kernel based on linux.
- Apart from the regular android kernel features that came built into the Android OS, this beetle kernel was overclocked both in cpu and gpu clock speeds, providing a much smoother and faster overall experience.

Linux Theming Dotfiles | Vim Script, Python, Shell

- Developed a collection of self-configured theming configurations that support tools like, picom (a compositor for X11 display server), I3 window manager, neovim, Music Player Daemon (MPD), etc.
- These config files are purely themed with the gruvbox color scheme which provides a versatile coding experience and is supported for both linux and BSD platforms.

Technical Skills

Languages: C++, C, Javascript, Python, Java, Assembly Language, XML, HTML, CSS.

Technologies: Cmake, STL (Standard Template Library), OpenMP, PyTorch, jQuery, Bootstrap, Node.js, Android SDK.

Concepts: Compilers, Operating Systems, Virtual Memory, Cache Memory, Encryption, Embedded Systems, Algorithms.

Achievements

- Achieved top 20 rank on Hackathon 2020 organized by Future-Proof Labs by Techno India Group.

Social Engagements

Participant: in Robotronics, a robot building match between inter colleges.

Student Member : at Future-Proof LABS - the tech society of Techno India Group.

Official Maintainer: at various custom Android OS projects like DotOS, SuperiorOS, ViperOS.

Sports-Engagements: Badminton, chess.