

VIVEKA P

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EDUCATION

PSG College of Technology, Coimbatore
Bachelor of Engineering
Electronics and Communication Engineering

September 2019 - May 2023

CGPA : 8.28

PROJECTS

Smart Assistance Gloves using IOT

- Developed an IoT-based smart assistance glove to aid individuals with disabilities, featuring a wearable module with sensors to collect data for gesture recognition.
- Implemented cloud-based data transmission using LilyPad microcontroller and Node MCU to relay information to Google Firebase, enabling communication and remote device control.
- Integrated a Raspberry Pi for data processing, supporting sign language translation, audible message output, and smart home appliance control to enhance accessibility.

Blockchain for Personal Health Records

- Developed a blockchain-based authentication system for securing Personal Health Records (PHRs) to ensure privacy and data integrity.
- Utilized Python for smart contract programming, employing the Rinkeby test network and IPFS (Interplanetary File System) is used for virtual storage solutions.
- Project recognized at a college-level hackathon and advanced to the 1st level of the Smart India Hackathon.

Readers-Writers Synchronization

- Implemented a solution for the Readers-Writers synchronization problem using semaphores in Python to manage concurrent access to shared resources.
- Utilized semaphore acquire and release methods to coordinate reader and writer processes efficiently.

TECHNICAL SKILLS

Expertise	Embedded Software, Data Structures, Computer Architecture, Operating System, OOPS
Languages	C, C++, Python
Software & Tools	Linux, VS Code, MATLAB, gRPC, OpenCV, Jenkins, Git, Agile

WORK EXPERIENCE

Caterpillar, Chennai	January 2023 - June 2023
Data Intelligence Intern	<i>C++, Linux, gRPC</i>
Caterpillar Inc, Chennai	July 2023 - Present
Associate Engineer (Agency - Randstad) - Data Intelligence & Solutions	<i>C++, Python, MATLAB, Linux</i>

CO-CURRICULAR ACHIEVEMENTS

- Served as Secretary of IEEE Students Chapter 12951 from 2022 - 2023.
- Played an Integral Role for SRiSHTi2k22, an Inter college National symposium conducted by IEEE Students Chapter 12951, PSG College of Technology.
- Played an Integral Role as the Overall In-charge for ATOM 2k22, an Intra college symposium conducted by IEEE Students Chapter 12951, PSG College of Technology.
- Volunteered teaching for an organization "For the Kids" for 1 month, during the academic year 2020-2021.