Avanish Shenoy

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EDUCATION

PES University — Bangalore, India
B.Tech in Computer Science CGPA - 9.44 — *Dec 2021 – Present*
- 6x Professor MRD Scholarship Awardee for being in the top 20% of the batch

Karkala Jnanasudha PU College Ganit Nagar — Udupi, India
State Board (PCMC) - 100% — *June 2019 – October 2021*
- KCET Rank 457
- JEE Main 98.13 percentile

Karkala Jnanasudha PU English Medium School Ganit Nagar — Udupi, India
State Board - 98% — *June 2017 – May 2019*
- APGET Scholarship Awardee for securing 98% and above in SSLC

TECHNICAL SKILLS

Languages: Python, C, C++, SQL, HTML/CSS, JavaScript, Java
Frameworks/Tools: Git, Docker, AWS, React, Express, Django, Firebase, Vercel, Supabase, Unity, Unreal, Blender, THREE.js, Tailwind, Kafka, Spark, MySQL, Postgres
Other Skills: Team Work, Mentoring

EXPERIENCE

SE Intern — Arista Networks, Bangalore, India
Automation of Drop and Trace Code Programming for Packet flow Debugging — *June 2024 – July 2024*
- Automated the hardware table programming process by parsing NPL-generated YAML files and generating chip-specific code using Arista's Python Parser and EOS infrastructure, removing the need for manual firmware updates.
- Utilized EOS plugin architecture and Arista's SDK to dynamically load and program hardware table entries based on runtime hardware specifications, achieving seamless synchronization across various programmable chips.

Intern — IoT Center, PES University, Bangalore, India
Smart Parking System — *January 2023 – March 2023*
- Collaborated with a team to develop a cost-effective smart parking system prototype for the college, contributing to an estimated 20% reduction in cost compared to the existing solution.
- Took a pivotal role in the project, focusing on developing a real-time monitoring dashboard using React and Firebase to track sensor data and enhance user experience.

Intern — PESU IO, Bangalore, India
Web Development — *October 2022 – January 2023*
- Conceptualized and crafted a comprehensive User Dashboard using Express, Nuxt.js, and PostgreSQL, featuring an event calendar, certification tracking, and user profiles.
- Streamlined the dashboard's interface to ensure intuitive navigation, resulting in an enhanced overall user experience.

PROJECTS

MARD – Multi-Functional AI Robot with Raspberry Pi 5 and OpenAI
- Developed MARD with speech recognition for natural voice commands and a user-friendly web-based remote control interface accessible via a dedicated webpage.
- Prioritized extensibility, enabling users to seamlessly integrate custom plugins to amplify the robot's functionality.

Generic AI Game Engine
- Engineered a flexible game engine that decouples AI logic from game mechanics, allowing AI agents to play any compliant game seamlessly.

- Demonstrated the engine's versatility by adding 2 games, TicTacToe and Connect4, supporting 4 modes such as Human vs Human, Human vs AI, AI vs Human, and AI vs AI.

Kannon-1000: Load Testing Tool
- Created Kannon-1000, utilizing Avalanche and Tsunami testing techniques, ensuring real-time updates and scalability up to 6 driver nodes.
- Utilized Kafka for efficient data communication, enhancing synchronization and performance metrics.

EXTRA CURRICULAR

Nexus Core Member of Web Development
- Contributed to organizing an engaging online treasure hunt, which attracted the participation of over 300 individuals.
- Facilitated educational workshops covering various topics, including Web Design and Git version control, fostering skill development and knowledge sharing among club members.

GDSC ARVR Lead (PES Chapter)
- Actively contributed to the Hacktoberfest repository, completing 4 pull requests. These contributions led to a tree being planted as part of Hacktoberfest's acknowledgment of the first 50,000 contributors.

Competitive Programming
- Achieved a Code Chef 2-star rating, showcasing dedication to continuous improvement.