Avanish Shenoy

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Education

PES University — Bangalore, India
B.Tech in Computer Science CGPA - 9.47 — *December 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

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.

Projects

MARD – Multi-Functional AI Robot with Raspberry Pi 5 and OpenAI

- Built an AI-powered robot with 90%+ accurate speech recognition, enabling seamless execution of 50+ natural voice commands.
- Developed a web-based remote control interface with <200ms latency, allowing users to operate MARD from any device.
- Designed an extensible plugin system, facilitating the integration of 5+ custom plugins, enhancing functionality for diverse use cases.

Generic AI Game Engine

- Engineered a flexible game engine that decouples AI logic from game mechanics, enabling AI agents to play any compliant game with 100% autonomy.
- Demonstrated the engine's versatility by integrating 2 games (TicTacToe and Connect4), supporting 4 gameplay modes: Human vs Human, Human vs AI, AI vs Human, and AI vs AI.

Kannon-1000: Load Testing Tool

- Developed Kannon-1000, a high-performance load testing tool leveraging Avalanche and Tsunami techniques, supporting real-time updates and scaling up to 6 driver nodes for distributed testing.
- Optimized data communication using Kafka, achieving 30% faster message throughput and improved synchronization for accurate 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.