Punith A

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EDUCATION

PES University — Bengaluru, Karnataka
Bachelor of Technology in Computer Science — *Dec. 2021 – May 2025*

Christ Academy Junior College — Bengaluru, Karnataka
Pre-University, PCMC — *May 2019 – May 2021*

PROJECTS

BioBit | *React, Express.js, MongoDB, Hyperledger Fabric* — Feb. 2024 – Present
- Designed a comprehensive solution with a Node.js backend, a user-friendly frontend, and Hyperledger Fabric for secure and immutable drug tracking to combat counterfeiting.
- Enabled seamless consumer access to verified drug details via QR codes, enhancing transparency and regulatory compliance.
- Deployed JavaScript-based smart contracts in a multi-organization Hyperledger Fabric network for automated and secure data validation.
- Designed a robust pipeline to synchronize approved drug records from MongoDB to blockchain, ensuring data integrity and consistency.

Heart-Talk | *HTML, CSS, Django* — May 2023 – June 2023
- Developed a blog website enabling users to create and manage posts with date and time stamps.
- Built a user-friendly interface for seamless content creation and browsing.
- Completed the project in 2 weeks, showcasing strong project management and development skills.

Task Management System | *MySQL, Raft Consensus* — Feb. 2024 – Mar. 2024
- Developed a fault-tolerant distributed key-value store using the Raft consensus algorithm, ensuring leader election, log replication, and fault tolerance for high availability.
- Designed and implemented RESTful APIs for client-server communication and integrated MySQL for backend data storage to support efficient key-value operations.

Indian Premier League Auction Simulator | *Java* — Personal Project
- Designed an IPL auction simulator in Java, utilizing SOLID principles to enhance code maintainability and reduce future development time by 40%.
- Simulated real-time auctions for a database of over 100 players across 4+ teams.
- Constructed a flexible architecture allowing for 80% code reuse with only 20% modification required for different auction types.

TECHNICAL SKILLS

Languages: Java, Python, C, React, Node.js, Django, SQL (Postgres), JavaScript, HTML/CSS
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, IntelliJ
Libraries: pandas, NumPy, Matplotlib

CERTIFICATIONS

- Level 1 - CIE (Centre of Innovation and Entrepreneurship)
- Programming Intermediate – Hacker Rank
- Linux Foundation – Linux Kernel Development