Prabhu Yogesh Vijayan

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I am a recent graduate from Newcastle University holding an MSc in Advanced Computer Science with more than two years of experience in software development, seeking an opportunity at your organization. I am a proficient, full-stack Java developer and I have previously immersed myself in the world of building microservices, Java applications and front-end interfaces using JavaScript. My priority during these projects has been to provide an optimal user experience and scalability. Through prior experience, I developed an ability to drive improvements throughout the Software Development Life Cycle. I hope to hone my technical capability in a result driven environment, with a supportive team, to allow me to reach my ambition of working in a leadership position.

Education

- **MSc Advanced Computer Science** | Newcastle University, UK | 2022-2023
    - Relevant Modules: Advanced Java, Enterprise Middleware, Machine Learning, Cloud Computing
- **B.Tech. Computer Science Engineering** | NIT Tiruchirappalli, India | 2016-2020

Technologies and Languages

- Languages: Java 8, C, C++, Javascript, Python
- Frameworks: Spring, Spring Boot, OJET, Angular
- Database: Oracle Database, Oracle PL/SQL, MySql
- Tools: Docker, Kubernetes, Red Hat OpenShift
- Others: Swagger, Java Collection Framework, Gradle, Linux, GitHub, J2EE

Employment Experience

Software Engineer Java| Oracle, India| May 2022 – September 2022

- Designed and developed Restful APIs for new and existing Oracle Banking products, employing Agile methodology to ensure iterative and collaborative development processes
- Implemented all functionality using Spring Boot and Hibernate ORM, while leveraging Azure DevOps for streamlined project management and continuous integration
- Collaborated with stakeholders to develop custom APIs to aid ventures into alternative banking activities
- Facilitated the education of the current team members about microservices and conducted workshops and webinars with close to twenty team members which improved productivity 45%, according to performance surveys
- Played a crucial role in enhancing of software functionalities and maintained prompt responses within agreed timeframes

Java Developer | Profinch Solutions, India | July 2020 – May 2022

- Engineered Spring Boot microservices tailored for leading multinational banks, ensuring robust and scalable solutions.
- Collaborated with the team to develop front-end client applications using the OJET library, enhancing user interface functionality and aesthetics.
- Orchestrated cross-functional efforts to implement new UI features, resulting in a 74% improvement in customer satisfaction through smoother onboarding experiences for banking clientele.
- Led the on-site deployment of custom projects, ensuring seamless integration and alignment with client specifications and expectations.
- Provided prompt and accurate technical troubleshooting for live services, fostering client satisfaction through meticulous analysis and resolution.
- Facilitated recruitment process and guided developer's onboarding with the existing projects

Software Engineering Intern | Neurosynaptic Communications, India | May 2019 - July 2019

- Worked under the Design and Development team to build Language Support for current e-health software to improve outreach for remote healthcare applications
- Invested time to enhance knowledge in using effective coding patterns, compliant with professional standards
- Effectively utilized Spring/Hibernate frameworks to implement, debug and review product code

Software Engineering Intern | Finonyx Software Solutions, India| November 2017 - December 2017

- Conceptualized a new banking website for clients using Spring MVC and Hibernate to prototype, design, and develop solutions
- Effectively integrated with SQL Database to ensure smooth and efficient data management
- Contributed to the creation and implementation of robust test plans to ensure the quality and reliability of projects

Professional Projects

Bots for Gaming |Reinforcement Learning

- Integrated curiosity-driven algorithms into gameplay using reinforcement learning (RL) techniques, enhancing bot behaviour and adaptability.
- Conducted a comprehensive comparative analysis between curiosity-driven algorithms and traditional RL approaches, highlighting their respective impacts on gameplay dynamics.
- Stimulated bots to explore extensively in video game simulations characterized by sparse rewards, fostering more dynamic and engaging gaming experiences.
- Implemented a ICM module in conjunction with Deep Q-Network (DQN) to refine bot performance in novel environments, showcasing significant improvements in adaptability and learning efficiency.
- Presented findings and insights to the Computer Science Department at NIT-Trichy as part of a notable capstone project, contributing to academic discourse and knowledge exchange.

Secure Ticketing System for Events |Android Studio, Google Firestore

- Led a team of 7 in the design and development of secure digital ticketing application for in-person events, ensuring user-friendly interface and seamless functionality
- Collaborated with team members to integrate security measures and prevent potential threats such as counterfeiting and fraud
- Utilized Firebase Realtime Database and Google Firestore for secure storage of user data and ticket information
- Conducted comprehensive testing including unit testing, integration testing, and user acceptance testing to ensure reliability, security, and usability of the application

Thesis: Traceability in Food Supply Using Blockchain | Solidity, Ethereum

- Designed and implemented a blockchain-based supply chain management system to track the movement of products from farmers to customers, ensuring transparency and accountability throughout the supply chain
- Utilized Solidity for smart contract development and employed the Ganache Truffle Suite for local blockchain emulation and development
- Implemented role-based access control for participants including farmers, retailers, grocers, and customers to manage permissions and actions within the system
- Developed smart contracts to define product states, handle transactions, and emit events for transparency and auditability
- Enabled comprehensive tracking of product information and lifecycle stages, facilitating verification and traceability on the blockchain