Tayyab Nadeem

Contact Information

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Profile Summary

Skilled Full-Stack **Senior Software Engineer** with **5 years** of hands-on experience in **React.js, Node.js, PHP (Yii2), Ruby on Rails, C++, Web3.0 and Database Management**. Proficient in building scalable **web applications, RESTful APIs, and cloud solutions** using AWS. Strong in database design (**PostgreSQL, MySQL, Redis**), and site reliability practices.

Also experienced as a **programming instructor**, teaching core and advanced concepts in Java and C++, reinforcing strong foundations in **data structures, algorithms, and clean code**. Effective **communicator and team collaborator** with a focus on code quality, mentorship, and agile development.

Work Experience

Senior Software Engineer @ Revolving Games

July 2022 - Present

- Led end-to-end development of scalable full-stack applications using **React.js** for frontend and **Node.js** for backend services.
- Designed and implemented **RESTful APIs** and microservices architecture for high-availability systems.
- Architected and deployed cloud-native applications using **AWS services** such as **EC2, S3, Lambda, RDS, and CloudFront**.
- Integrated **Web3.0** technologies, including smart contract interaction (Ethereum, Solidity, Web3.js), wallet authentication, and blockchain data handling.
- Built and maintained robust relational and non-relational **databases** (MySQL, PostgreSQL, MongoDB), optimizing queries and ensuring data integrity.
- Collaborated with cross-functional teams including product, DevOps, and design to deliver high-impact features and improve time-to-market.
- Ensured **security** best practices in backend services, cloud infrastructure, and blockchain interactions.
- **Mentored** junior developers through code reviews, pair programming, and knowledge-sharing sessions.
- Stayed ahead of emerging technologies, with a strong focus on **scalability, performance, and maintainability** across all layers of the stack.

Software Engineer @ Bayt.com

September 2020 - June 2022

- Developed and maintained high-performance backend services using **PHP (Yii2 framework)**, ensuring modular, testable, and reusable code.
- Authored and maintained automation scripts and system tools using **TCL** for internal process optimization and legacy system support.

- Engineered efficient caching strategies with **Redis** to boost application performance and reduce database load.

- Designed and optimized complex queries and database schemas in **PostgreSQL**, focusing on high availability and data consistency.

- Collaborated with the **Site Reliability Engineering** team to enhance system uptime, monitoring, and disaster recovery readiness.

- Participated in incident response, root cause analysis, and postmortems to improve system reliability and prevent recurrence.

- Ensured application scalability and performance under load through proactive profiling, benchmarking, and tuning.

- Worked closely with **DevOps and QA** to enforce release processes, rollback strategies, and zero-downtime deployments.

Programming Instructor @ University of Lahore

February 2018 - August 2020

- Reinforced strong foundational knowledge in **data structures, OOP, and algorithms** by teaching core programming concepts.

- Strengthened **debugging, optimization, and clean code** practices by guiding students through diverse coding challenges.

- Sharpened **communication and leadership skills** via technical lectures, mentoring, and code reviews.

- Applied and taught best practices in software development, including modular design, testing, and version control (Git).

- Designed structured learning paths and scalable programming solutions, improving problem-solving and architectural thinking.

- Promoted collaborative coding through peer reviews and pair programming, enhancing teamwork and feedback skills.

Associate Software Engineer @ System Plus

July 2017 - January 2018

- Gained hands-on experience building web applications using Ruby on Rails, following MVC architecture and RESTful design principles.

- Learned to write clean, maintainable, and modular code using Ruby best practices and Rails conventions.

- Understood the full software development lifecycle, from feature planning and implementation to testing and deployment.

- Built and integrated relational databases using ActiveRecord with PostgreSQL, focusing on schema design and efficient querying.

- Developed frontend components using embedded Ruby (ERB), HTML, CSS, and basic JavaScript for dynamic, user-friendly interfaces.

- Collaborated with senior developers through code reviews, pair programming, and daily stand-ups, improving team communication and agile workflow understanding.

- Used Git for version control and learned collaboration best practices in a professional development environment.

- Gained exposure to real-world debugging, performance profiling, and issue tracking tools.

- Developed a solid understanding of web application security, database migrations, and background job processing with Sidekiq.

Education

Bachelors of Science - Computer Science
Lahore University of Management Sciences (LUMS)
Graduation Date: July 2017

Skills

Technical Skills

- **Languages & Frameworks:** React.js, Next.js, Node.js, PHP (Yii2), Ruby on Rails, C++, TCL, Solidity.

- **Backend & Full-Stack:** REST APIs, MVC, microservices, authentication, performance optimization.

- **Databases & Caching:** PostgreSQL, MySQL, MongoDB, Redis, Clickhouse, ActiveRecord.

- **DevOps & Cloud:** AWS (EC2, S3, Lambda, RDS), Docker, CI/CD, Site Reliability.

- **CS Fundamentals:** Data structures, algorithms, OOP, multithreading, design patterns.

- **Tools & Workflow:** Git, Agile/Scrum, Visual Studio, Eclipse, code reviews, pair programming.

Communication & Leadership Skills

- Mentoring and technical coaching

- Curriculum design and technical training

- Cross-functional collaboration

- Code reviews and team leadership

- Clear technical communication

- Agile teamwork and stand-ups

Certificates

- API and Web Service

- AWS Certified Cloud Practitioner

- JavaScript Algorithms and Data Structures

Recent Projects

- RCADE Node - NFT Dashboard with Smart Contract interactions with reward calculations

- War of Nova - An interactive leaderboard for Project Nova - A 4X strategy game

- Hatchlings - Players rewards dashboard for Hatchlings - An open world exploration game

- Side Quests - Social questing app with Twitter Integration

References

Available upon request.