David Nguyen

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As a proficient Software Engineer **with over 10 years** of dedicated experience, I am committed to consistently delivering high-standard code. My proficiency is well-established in **React.js, Next.js, Nest.js, Express.js** in conjunction with **Microservices**. I am skilled in JavaScript/TypeScript, **React**, Next.js, Vue.js, jQuery, **SQL**, MongoDB, MySQL, PostgreSQL, and Docker. My core competencies are highlighted by a comprehensive understanding of software design patterns, object-oriented programming, and the SOLID principles. Furthermore, I am experienced in various aspects of software architecture. My strong problem-solving abilities and exceptional communication skills further complement my technical expertise, making me a well-rounded professional.

Work Experience

Senior Software Engineer   Remote

JMPC(Veeco)
Sep 2021 – Present

Web Application Development

- Drive and Follow Agile/SCRUM meetings to deliver high-quality software releases every 2-week sprint.
- Collaborate with cross-functional teams to develop and implement robust and scalable web application using the **MERN** stack.
- Developed and maintained complex web applications using **TypeScript, React,** and **Redux** for improved code maintainability and type safety.
- Utilized **TypeScript** to identify and prevent type-related bugs, leading to a 30% reduction in development time and improved code quality.
- Customize and integrate third-party **APIs** to enhance application functionality and user experience.
- Create **RESTful APIs** and backend services using **Node.js** and **Express.js**, ensuring high performance and security.
- Utilized **GraphQL** to design efficient and flexible **APIs**, enabling clients to request tailored data and reducing over-fetching.
- Optimize application performance and ensure code quality through code reviews and testing.
- Collaborate with **UI/UX** designers to ensure seamless integration of design elements into the application.
- Implement authentication and authorization mechanisms for user access control and data protection.
- Deploy and manage applications on cloud platforms such as **Heroku** and **AWS**, utilizing **Docker** for containerization.
- Conduct thorough testing, debugging, and troubleshooting to identify and resolve issues promptly.
- Actively participate in agile development processes, including sprint planning, stand-up meetings, and retrospectives.
- Mentor and assist junior developers, providing guidance on best practices and coding standards.

Technologies

- **React.js, Next.js, React Native, Node.js, Redis, AWS Lambda, Dapr, MongoDB, Jest, TypeScript...**

Technical Skills

- Node.js, Express.js, Nest.js
- Next.js, React.js, Vue, Nuxt
- Angular, React Native
- SQL, MySQL
- MongoDB, PostgreSQL
- OOP and Data Structure
- HTML, CSS, Bootstrap
- TypeScript, JavaScript
- jQuery, Axios
- Dapper
- JIRA, Bitbucket, GitLab
- Swagger, Postman
- Elastic Search, Docker
- Software Architecture
- Documentation and Testing

OTHER (Little experience)

- C#, .NET, ASP.NET
- Java, Spring
- Golang, Python, Ruby
- Kotlin, Flutter

Senior Software Engineer

MellowMind

United States

End-to-End Software Development

- Oversaw **end-to-end software development** life cycle, **debugged applications** & configured **existing systems**
- Improved development and operational **processes by 30%**

Application Development

- Developed and maintained front-end and back-end components of web applications using the **MERN** stack.
- Implemented **TypeScript** modules and decorators to enhance code readability and organization, resulting in a more efficient development process
- Integrated **APIs** to provide seamless third-party services and enhance application functionality.Designed and optimized **GraphQL APIs**, enabling efficient data retrieval and tailored responses for clients, minimizing over-fetching.
- Implemented user authentication and authorization systems using **JWT** and **OAuth**.
- Collaborated with **UI/UX** designers to create user-friendly interfaces and ensure optimal user experience.
- Utilized version control systems, such as **Git**, to manage codebase and facilitate collaboration.
- Participated in sprint planning, daily stand-ups, and retrospective meetings to drive project success.
- Contributed to the optimization of application performance through profiling and debugging techniques.

Code Reviewing & Unit Testing

- Formed technical specifications & wrote **codes for MERN** software applications through pair **programming & code reviews**
- Participated in all **Scrum activities** including sprint planning, creating user stories, and **sprint retrospectives**
- Identified and **resolved project issues**, including issue tracking and escalation
- Created unit tests and reviewed the development of test protocols to test applications before UAT

Policy Formulation

- Formulated policies or patterns to raise the level of productivity of the entire **organization by 25%**
- Spearheaded & supervised a **team of 8+** junior developers and trained mentored them on designing & developing MERN applications

Troubleshooting & Issue Resolution

- Troubleshot, debugged and **modified existing programs** to improve **performance by 30%**
- Coordinated with the clients to understand their requirements and how they translate to new **application features**

Technologies and Tools

- **Backend Frameworks and Languages**
  - o Node.js, Express.js, Nest.js...
- **Frontend Frameworks and Languages**
  - o JavaScript, TypeScript, React, React.js, jQuery, HTML, CSS, Bootstrap, Material UI, Ant Design...
- **Database**
  - o MongoDB, SQL, MySQL, PostgreSQL...
- **Tools and Source Control**
  - o JIRA, GitHub, Git Lab, Bitbucket, Jenkin, Visual Studio, VS Code...

Soft Skills

- Teamwork and communication
- Creative Problem Solving
- Self-Learning
- Analytical Thinking
- Owning up to errors
- Time Management

Education

Computer Science

Hanyang University
2009-2013

Languages

- English

Hobbies

- Coding
- Reading
- Sports

Software Engineer   **United States**

HyperSoft   *Jun 2013 - Feb 2017*

Design and Development

- API Management, Use of **Python** and **Java** Libraries.
- Collaborated with a team of software engineers to develop and maintain enterprise-level applications using **Java**, **JavaScript**, and other relevant technologies.
- Designed and implemented robust and scalable solutions to meet client requirements and improve system performance.
- Demonstrated proficiency in **Linux** and **Ubuntu** system administration.
- Utilized **OOP/OOAD** principles to create well-structured and maintainable code.
- Worked with relational databases such as **Oracle** and **SQL** Server, writing efficient queries and optimizing database performance.
- Developed web services and **RESTful APIs** to facilitate data exchange between different systems.
- Implemented front-end interfaces using **HTML**, **CSS**, and **JavaScript** frameworks.
- Participated in Agile development processes, including daily stand-ups, sprint planning, and retrospectives.
- Conducted thorough testing, including unit testing and integration testing, to ensure software quality and functionality.
- Collaborated with product managers and stakeholders to gather requirements and provide technical expertise during the project lifecycle.
- Provided support and troubleshooting for production systems, identifying and resolving issues in a timely manner.

Technologies and Tools

- **Backend Frameworks and Languages**
    - Java, Python, Ruby on Rails ...
- **Frontend Frameworks and Languages**
    - jQuery, HTML, CSS, Bootstrap ...
- **Database**
    - PostgreSql, MySQL ...
- **Tools and Source Control**
    - JIRA, GitHub, Git Lab, Bitbucket, Ruby Mine, Visual Studio, VS Code ...

Projects

Valicit Ticketing

Project Description

- An Online Platform to Find or Sell Tickets for Your Dream Events. Valicit Ticketing is an online Platform where you can find an event of your interest and then purchase tickets for that event and if you don't want to attend the event you can sell them on a secondary marketplace to other users.
- This project is also for Vendors where they can add Events of any type and list down the ticket price of Events.
- This Project is based on Microservice Architecture.

My Role

- Worked as a Backend Developer where my responsibilities included connecting micro-services with each using Event Based Approach through Kafka.js other managing Backend Database.
- Contributed to the development of **software architecture** and technical design.
- Writing End to End tests and Integration Tests
- I conduct code reviews and provide guidance to junior team members to help them improve their skills and complete tasks efficiently.
- I manage a team of eight or more, ensuring collaborative work and timely delivery.
- Provide technical support and troubleshoot production issues.

Technologies

- Jest, Node.js, Nest.js, Redis, AWS Lambda, Kafka.js, React.js, MySQL, Docker Compose

Sales Support

Project Description

- Sales Support is an Inventory Management System for the Merchants of Amazon, Ebay and Walmart that wants to kick their business out of ground with no effort.
- This project holds Amazon FBA and Amazon FBM functionality so that Amazon Merchants have an inventory system for their products and all the revenue generated from Amazon while syncing the merchant's data with amazon account and keeping record of every order.
- This uses Microservice Architect for the modules like Dropshipping, Order Status etc.

My Role and Contributions

- **Full Stack Developer**.
- Worked as a Frontend Developer where my responsibilities included handling states using Redux, Api-Integrations with Backend.
- Also contributed as a Backend Developer on one of 4 Microservices in Node.js where my responsibilities include writing jobs and connecting them with Lambda functions on Amazon CloudWatch Services.
- Contributed to the development of Software architecture and technical design.
- Writing End to End tests and Integration Tests.
- Contributed in Designing and Development of Front-End in React.js for Admin Panel.
- Provide technical support and troubleshoot production issues.
- Provided support and development services to US based Client long term.

Technologies

- Jest, Node.js, Redis, AWS Lambda, Kafka.js, React.js, Redux, MongoDB, Docker Compose, Serveless, CloudWatch Services

Relevic Editor

Project Description

- Relevic Editor is a no-code project or a web personalization for companies that are multinational and want to show special discount offers and promotions in some regions of the world with a specific date period.

My Role and Contributions

- **Senior Software Engineer**
- Contributed to the development of the project.
- Worked as a Front-end Team Lead in the development of frontend admin portal and the cdn.
- Contributed in the development of Backend by optimizing the queries and making code simpler by dividing into multiple files to use the Functional Approach.
- Provide technical support and troubleshoot production issues.

Technologies

- Jest, Node.js, Redis, AWS Lambda, React.js, Redux, MongoDB, Docker Compose, Serveless, GCP, Azure Blob Services.

Rental Scout

Project Description

- UAE-based property management system offers a comprehensive solution for buying, selling, and recording properties. We streamline the real estate transactions process with OCR API integration, allowing quick and accurate property information extraction.

- Our system features high-level architectural designs for front-end and back-end, ensuring robust and scalable operations.

My Role and Contributions

- **Full Stall Developer and Team Lead**
- Understanding of requirements, logic building, and application scaling.
- Refactoring and restructuring both front-end and back-end applications to achieve better performance.
- Through my expertise in SQL Query Optimization, Indexing of Tables, Asynchronous Programming, and Solid Principles, I have successfully improved the performance of various applications by up to **25%**. Additionally, I have made a significant impact on the Angular side application by reducing its build size from **30MB to 18MB**

Technologies

- React.js, Node.js, Express.js, TypeScript, MySQL, Dapr