Nathan Affolter

Backend focused Full-Stack Developer
Le Bouveret, 1897 Port-Valais, Switzerland
nathanaffolter@proton.me

Summary

Nathan is a Backend focused Full-Stack Engineer specializing in both frontend and backend development.

With a strong understanding of backend development, covering database management, API integration and server-side logistics implementation, his experience in construction scalable and efficient microservices architecture enables him to develop robust and high-performance backend systems.

In addition, passionate about creating intuitive user interfaces that provide an exceptional user experience.

Technical Skills
Core Skills

- **Frontend:** HTML, CSS, SCSS, Tailwind CSS, Bootstrap, React, Angular, Vue, Svelte, NgRx, Redux
- **Backend:** Node.js, Express.js, PHP, Nest.js, Next.js, Python, C#
- **Languages:** JavaScript, TypeScript
- **Development kits:** Visual Studio Code, Sublime Text, Postman
- **Data access:** MySQL, PostgreSQL, MongoDB, Oracle, AWS DynamoDB
- **Clouding:** AWS (Amplify, Lambda, EC2, SQS, SNS, S3), Google (GCP, GKE), Azure
- **Message Broker & Queue:** Apache Kafka, RabbitMQ, CloudAMQP, Amazon MQ
- **Testing:** Mocha, Chai, Jest, Selenium
- **Approach:** Agile, EDD, TDD, OOP, Design Patterns, SCRUM
- **DevOps & CI/CD:** Azure DevOps, Docker, GitHub Actions, Jenkins, Vercel
- **Version control:** GitHub, GitLab, Bitbucket, Subversion (SVN)
- **Source management:** Jira, Azure DevOps, Trello, Asana
- **Communication:** WhatsApp, Skype, Microsoft Teams, Slack, Discord, Telegram

Operating Systems

- MacOS, Linux, Windows

Miscellaneous

- Object-oriented programming
- Algorithms analysis/design
- Design patterns
- Excellent communication and teamwork skills

Work History
Software Engineer
Cortex, Switzerland

08/2018 - 03/2020

- Developed and deployed robust backend infrastructures with Node.js, Express.js, and Laravel, enhanced system performance by 50% and enabled seamless integration in a microservices architecture.
- Primarily focused on creating intuitive UIs using React and PHP, resulting in a 20% reduction in load times.
- Built RESTful APIs using Express.js and utilized Swagger for documentation, ensuring smooth interaction between the frontend and backend.
- Managed and optimized databases using Mongoose with MongoDB, ensuring efficient data retrieval and storage for microservices.
- Spearheaded the adoption of microservices architecture using Docker and Kubernetes, enhancing scalability and maintainability of the overall system.
- Integrated third-party services and APIs seamlessly into the backend using Axios for HTTP client requests, ensuring smooth interoperability.
- Implemented robust security measures using JWT authentication and HTTPS, ensuring the confidentiality and integrity of user data in a microservices environment.
- Established CI/CD pipelines with Jenkins, automating the testing, building, and deployment processes for Node.js microservices.
- Implemented monitoring using PM2 and conducted performance analysis, optimizing backend systems for enhanced response times, employing caching strategies with technologies like Redis.

Senior Software Engineer
Netcetera, Switzerland
04/2020 - 06/2024

- Developed back-end services in Microservice architecture using Node.js, Express.js, ASP.NET Core, Spring Boot, Ruby on Rails to implement a state-wide model used by customers.

- Primarily focused on creating user-friendly and seamless UIs using Angular and Vue.js, resulting in a 25% improvement in performance and a 15% increase in customer satisfaction.
- Used Express.js to handle and intercept the user requests and various controllers to delegate the request flow to the backend tier of the application.
- Provided consulting services to external clients in the areas of SQL & NoSQL databases and PCF cloud native.
- Conducted code reviews and mentorship for 4 junior developers.
- Created numerous test cases using Mocha and Chai frameworks for frontend UI tests.
- Implemented some serverless functionalities using AWS Lambda with S3 buckets and ensured the messaging services using SQS and SNS.
- Partnered with Scrum master and Product manager with daily reports, resolving impediments related to mapping documents, and sprint planning.
- Collaborated closely with frontend developers to ensure seamless integration of user interfaces with Node.js-based backend functionality, fostering a cohesive development process.

Education

University of Geneva, Switzerland

B. S. Computer Science

09/2015 - 06/2018

Certifications

Certified Node.js Developer - Certification Authority (07/2021)

Certified Angular Developer - Certification Authority (02/2023)

AWS certified Solutions Architect - Certification Authority (11/2023)

Personal Quote

"Passionate about delivering quality code and impactful user experiences."