**Nathan Affolter**

Backend focused Full-Stack Developer

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**Summary**

Nathan is a Backend focused Full-Stack Engineer specializing in Node.js, Express.js and Microservices.

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.

**Technical Skills**

**Core Skills**

* **Frontend:** HTML, SCSS, Angular, PHP, Vue, NgRx, React, Redux, Tailwind CSS, Bootstrap,
* **Backend:** Node.js, Express.js, PHP, Nest.js, Next.js, Python, Django, 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:** Microsoft Teams, Slack, Discord, Telegram, Skype

**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)

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

**Personal Quote**

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