

Alfredo Carlos Nogueira de Castro

Node.js Fullstack Developer

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Summary

Alfredo is a highly skilled and experienced backend-focused full-stack engineer with a strong background in both backend and frontend development.

He is dedicated to delivering high-quality code and building robust solutions, with a focus on staying up-to-date with the latest technologies and trends.

Technical Skills

Core Skills

- **Languages:** JavaScript, TypeScript, Python, Ruby on Rails, PHP, C#
- **Frontend:** React, Vue, Angular, NgRx, Svelte, Redux, Nuxt.js, Tailwind CSS, SCSS
- **Backend:** Node.js, Express.js, Nest.js, Next.js, Laravel.
- **Data access:** MySQL, PostgreSQL, MongoDB, Redis, Oracle, AWS DynamoDB, BigQuery, Elasticsearch, TypeORM
- **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, SCRUM, Kanban, EDD, TDD, OOP, Design Patterns,
- **DevOps & CI/CD:** Docker, Kubernetes, AWS, Azure, GitHub Actions, Jenkins, Circle CI
- **Version control:** GitHub, GitLab, Bitbucket, Subversion (SVN)
- **Source management:** Jira, Trello, Asana, Azure DevOps
- **Development kits:** Visual Studio Code, Sublime Text, Postman
- **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

Senior Software Engineer

[Magma](#), Las Vegas, Nevada, US

06/2022 - 06/2024

- Implemented scalable backend systems using **Node.js** and **Express.js**, ensuring high performance and modularity in a **microservices** architecture.
- Developed RESTful APIs with **Express.js**, leveraging **Swagger** for **API documentation** to facilitate seamless frontend-backend communication.
- Managed and optimized databases using **Mongoose** with **MongoDB**, ensuring efficient data retrieval and storage in microservices.
- Spearheaded the adoption of a microservices architecture using **Docker** and **Kubernetes**, enhancing the 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.
- Deployed 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.
- Set up monitoring using **PM2** and conducted performance analysis, optimizing backend systems for enhanced response times, employing caching strategies with technologies such as **Redis**.

Senior Node.js Developer

[Plan A Technologies](#), Las Vegas, Nevada, US

08/2020 - 05/2022

- Developed back-end services in microservice architecture using Node.js (Express.js) and built a platform with multiple RESTful APIs for clients.
- Used **Express.js**, **ES6**, and Node.js to develop fully automated client management systems that handled user requests and delegated request flow to the backend tier of the application.
- Provided consulting services to external clients in the areas of **SQL** and **NoSQL** databases and **PCF** cloud native.
- Created numerous test cases for frontend UI tests using **Mocha** and **Chai** frameworks.
- Configured some serverless functionalities using **AWS** Lambda with S3 buckets and ensured messaging services using **SQS** and **SNS**.
- Contributed to the frontend development using **React**, **Angular**, and **Vue**.
- Involved in the **Agile** software development life cycle (**SDLC**) using **SCRUM** methods.
- Utilized **Winston** for application logging and debugging.
- Backed up **MySQL** databases and ran SQL scripts for **Node.js**-based applications.
- Designed **UML** Use case diagrams, Class diagrams, and Sequence diagrams.
- Partnered with the **Scrum** master and Product manager to provide daily reports, resolve impediments related to mapping documents, and participate in sprint planning.

- Collaborated closely with frontend developers to ensure seamless integration of user interfaces with **Node.js**-based backend functionality and fostered a cohesive development process.

Software Developer

Great Innovus, Midview, Singapore

09/2018 - 06/2020

- Delivered software for E-Cash Management tool as part of a full-stack development team using **Node.js**, **PHP**, **JavaScript**, **SQL**, **HTML**, and **CSS**.
- Engineered the application using the concrete principles laid down by several design patterns like **MVC**, **Singleton**, and **Data Transfer Object (DTO)**.
- Managed and optimized databases using technologies like **MySQL** and **MsSQL**, ensuring efficient data retrieval and storage within the microservices ecosystem.
- Developed frontend components using **JavaScript**, **jQuery**, **AJAX**, **HTML**, and **CSS** for projects based on **Node.js** platform.
- Responsible for integration, **unit testing**, **system testing**, and **stress testing** for all the phases of the project.
- Partnered with teammates to discuss solutions to problem issues.

Education

National University of Singapore, Singapore (09/2015 - 08/2018)

B.S. Computer Science

Certifications

Certified Angular Developer, Certification Authority (07/2021)

Certified Node.js Developer, Certification Authority (02/2023)

AWS Certified Solutions Architect, Certification Authority (11/2023)

Personal Quote

“Innovate relentlessly, code passionately, and create the future today.”