**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, Kubernates, 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  
[[*M*](https://verxatile.com/)*agma*](https://verxatile.com/), 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*](https://planatechnologies.com/), 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*](https://www.greatinnovus.com/), 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.”