Cesar Luis

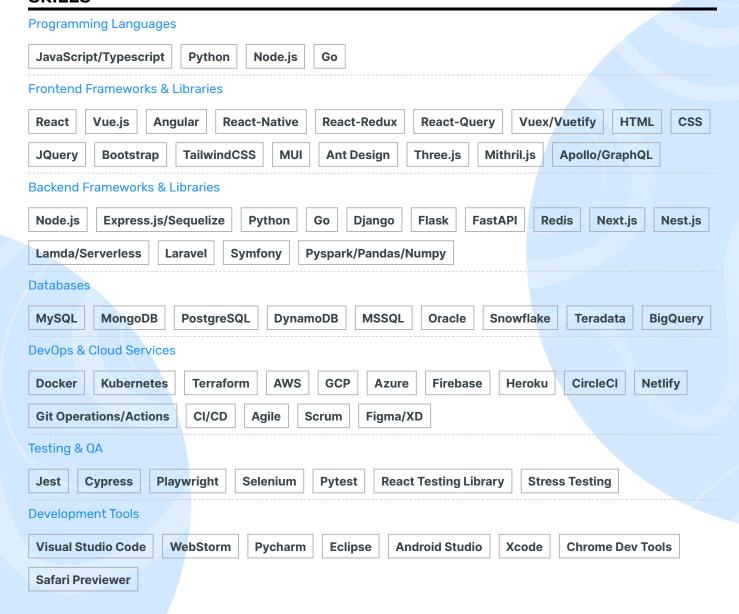## Senior Software Engineer

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SUMMARY

Experienced **Software Architect** and passionate **Full Stack Developer** with over 10 years of expertise in designing and developing cloud-based applications and mobile solutions. Skilled in backend technologies like **Python**, **Node.js**, **Go**, and proficient in frontend frameworks including **React**, **Vue.js**, **Angular.js** and modern **JavaScript/TypeScript** libraries. Extensive experience with cloud platforms such as **AWS**, **Google Cloud Platform (GCP)**, **Azure**, and **Firebase**, delivering scalable, secure, and efficient solutions. Dedicated to writing clean, well-tested code, leveraging **OOP principles** and **Design Patterns**, while thriving in collaborative, cross-functional teams.

SKILLS

Programming Languages

| JavaScript/Typescript | Python | Node.js | Go |

Frontend Frameworks & Libraries

| React | Vue.js | Angular | React-Native | React-Redux | React-Query | Vuex/Vuetify | HTML | CSS |
| JQuery | Bootstrap | TailwindCSS | MUI | Ant Design | Three.js | Mithril.js | Apollo/GraphQL |

Backend Frameworks & Libraries

| Node.js | Express.js/Sequelize | Python | Go | Django | Flask | FastAPI | Redis | Next.js | Nest.js |
| Lamda/Serverless | Laravel | Symfony | Pyspark/Pandas/Numpy |

Databases

| MySQL | MongoDB | PostgreSQL | DynamoDB | MSSQL | Oracle | Snowflake | Teradata | BigQuery |

DevOps & Cloud Services

| Docker | Kubernetes | Terraform | AWS | GCP | Azure | Firebase | Heroku | CircleCI | Netlify |
| Git Operations/Actions | CI/CD | Agile | Scrum | Figma/XD |

Testing & QA

| Jest | Cypress | Playwright | Selenium | Pytest | React Testing Library | Stress Testing |

Development Tools

| Visual Studio Code | WebStorm | Pycharm | Eclipse | Android Studio | Xcode | Chrome Dev Tools |
| Safari Previewer |

EDUCATION

Bachelor's degree - Computer Science

University College Dublin

📅 08/2010 - 10/2014

EXPERIENCE

Senior Full Stack Developer

Challenge Entertainment

📅 03/2023 - Present   📍 Remote

Working as a senior full stack developer to build interactive products using various tech stacks including **React.js**, **Vue.js** (**JavaScript/Typescript**), **Node.js**(**Express**) and **Python**(**Django**, **Fast API**) .

- **Project Leadership:** Spearheaded the creation of interactive digital products, including **admin dashboards**, **main boards**, and **mobile applications**, serving over **20,000 users** with responsive, user-friendly interfaces built using **React.js**, **Vue.js**, and **TypeScript**.
- **Real-Time Chat Integration:** Designed and implemented a real-time chat system using **PubNub**, providing a seamless user experience with minimal latency across devices.
- **Serverless API Development:** Built **scalable RESTful APIs** with **AWS Lambda** and **Firebase**, streamlining backend processes and reducing server costs by over **30%**.
- **Performance Optimization:** Conducted automated **stress and load testing** to enhance API performance, improving response times by up to **40%** by identifying and resolving bottlenecks.
- **DevOps & CI/CD:** Established efficient **CI/CD pipelines** using **CircleCI** and **GitHub Actions**, reducing deployment times by **50%** and ensuring continuous integration throughout development cycles.
- **Caching for Efficiency:** Implemented **Redis** to optimize data retrieval, significantly enhancing application load times and performance during peak usage.

Full Stack Developer

Amazon

📅 06/2017 - 02/2023   📍 Dublin, Ireland

Developed full-stack internal platforms for managing physical resources, delivering scalable backend systems, interactive front-end UIs, and cloud-native solutions using modern technologies like **Python**, **Node.js**, **Go**, **React**, and **AWS serverless services**.

- **Engineered dynamic front-end applications** and **backend APIs** using **Python**, **Node.js**, and **Go** within **MVC frameworks**, delivering high-performance, maintainable systems.
- **Designed and delivered interactive UIs** with modern frontend technologies (**JavaScript**, **TypeScript**, **React**, **Angular**, **Vue**) by translating mockups into pixel-perfect, responsive code.
- **Elevated application standards** by focusing on **quality**, **security**, **performance**, **scalability**, and **usability**, while implementing robust operations best practices.
- **Architected scalable backend systems** leveraging **NoSQL databases** like **DynamoDB** and **MongoDB** to support high-traffic workloads with optimized data storage solutions.
- **Built cloud-native solutions** on **AWS**, utilizing serverless technologies including **CloudFront**, **API Gateway**, and **AWS Lambda** to deliver cost-effective, highly available systems.

Software Engineer

Datadog

📅 12/2014 - 05/2017   📍 Dublin, Ireland

Developed and scaled a cutting-edge video conferencing platform using **TypeScript**, **React.js**, **Node.js**, and **Go**, implementing robust RBAC, enhancing frontend and backend performance, and ensuring exceptional user satisfaction with rapid issue resolution.

- **Video Conferencing Platform Development:** Designed, built, and scaled a **TypeScript-based video conferencing platform** using **Amazon Chime SDK**, achieving feature parity with industry leaders like **Zoom** while delivering a seamless, high-quality user experience.
- **Backend Development with Go:** Enhanced platform performance and scalability by integrating **Go** into backend services, optimizing resource management and streamlining real-time data processing.
- **Frontend Refactoring & Testing:** Modernized a legacy frontend codebase by refactoring to **TypeScript**, significantly improving **code readability** and **maintainability**. Achieved **100% unit and integration test coverage** using **Jest** and **Cypress**, ensuring a robust and error-free interface.
- **Role-Based Authorization (RBAC):** Engineered a sophisticated **role-based access control (RBAC)** system for secure authentication and granular permissions, catering to researchers, moderators, and other user roles with tailored access.
- **Rapid Issue Resolution:** Collaborated with customer support to identify and resolve critical bugs, achieving an average resolution time of under **24 hours** and significantly improving **customer satisfaction scores**.
- **Cross-Functional Collaboration:** Worked alongside product, QA, and customer success teams to prioritize features and ensure seamless delivery of enhancements, focusing on user-centric solutions.

CERTIFICATION

Node.js Services Developer Certification

OpenJS Foundation, 2020

Full Stack Developer Professional Certificate

Meta, 2022