CESAR VALENCIA

Senior Software Engineer | Startup Specialist | Building Next-Gen Software Solutions | Cross-Platform App Development

\$\cup +1 206 647 7441 @ cvalencia9943@gmail.com & https://cesar-developer-portfolio.vercel.app & https://github.com/cvalencia9443 **♥** Kent, WA, US 98042 ☆ https://calendly.com/cvalencia9943/30min

TECHNICAL SUMMARY

- Diverse industry experience across AI, E-commerce, Healthcare, Real Estate, FinTech, Retail, and Social.
- Built Front-end applications for different platforms using React, Next.js, Vue for Web, React Native, Expo for Mobile, and Electron for Desktop applications.
- Implemented highly-organized state management with <u>Redux</u>, <u>MobX</u>, <u>Zustand</u>, and <u>Recoil</u>.
- Engineered data visualization solutions for the dashboard using <u>Chart.js</u>, <u>ReChart</u>, and <u>D3.js</u>, enhancing the data insights through the improved UI/UX with *localization* and web accessibility principles.
- Back-end development with Node.js, Express.js, Nest.js, FastAPI, Django, and Go, utilizing monoliths and microservices architecture.
- Proficient in designing and optimizing the database schemas (MySQL, PostgreSQL, MongoDB, Dynamo, FireStore) and integrating them with ORMs (Prisma, SQLAlchemy)
- Implemented API layers with <u>RESTful APIs</u> and <u>GraphQL</u>, and configured secure authentication using services like <u>Okta</u>, <u>AWS Cognito</u>, <u>SuperToken</u>, and <u>Zitadel</u>; managed <u>cloud infrastructure</u> (<u>AWS</u>, <u>GCP</u>) with <u>IaC tools</u> (<u>Terraform</u>, <u>AWS-CDK</u>).
- Integrated 3rd-party services (Stripe, Hubspot, Shopify, etc.) into the application to enhance the functionality.
- Committed to <u>Test-Driven Development (TDD)</u> using <u>Jest</u>, <u>Cypress</u>, <u>Pytest</u>, and <u>Playwright</u>, delivering high-quality code quickly while adapting to new technologies.
- Integrated GenAl models (OpenAl, Anthropic, Gemini, etc) for implementing Al-related functionalities.
- Quick to deliver high-quality code and adapt to new technologies.

KEY SKILLS

Typescript, React, Next.js, React Native, Electron, Express, Nest, Python, FastAPI

PROFESSIONAL EXPERIENCE



Senior Software Engineer (Lead)

BigRic

Led end-to-end development and successful delivery of large-scale, mission-critical projects for industry leaders in AI, ECommerce, Blockchain, Real Estate, Media, Retail, Finance and other sectors.

- Developed high-performing cross-platform frontend application using HTML/CSS, React, React Native, Electron, Next.js, Typescript, Tailwind CSS, Radix UI, and ShadCN.
- Brought out a data-visualization solution by utilizing D3.js, Chart.js, Rechart, and implemented ArcGIS for integrating the map components for improving the UI/UX.
- Implemented web accessibility by following the **WCAG2** and multi-language support with **React-i18next**.
- Improved the performance by 7% by combining the **Server-side/Client-side components** effectively and integrating **CDN** to manage the assets properly.
- Delivered efficient data fetching and caching strategies, leveraging RESTful APIs and GraphQL with Typescript,
 Python, and Go based on a microservice architecture.
- Designed and utilized data models and query patterns for SQL and NoSQL databases, including PostgreSQL, MongoDB, DynamoDB, and Redis.
- Built custom auth-wall that supports different types of OAuth (Google, Outlook, GitHub...) solutions.
- Set up message brokers like Kafka and RabbitMQ for asynchronous communication between services, enhancing application responsiveness.
- Utilized ElasticSearch to provide personalized recommendation based on user's actions.
- Integrated the **LLMs** (GPT, Claude, Gemini...) for implementing the Al-related functionalities.
- Configured CI/CD pipelines with **Jenkins** and **CircleCI**, integrating them with **GitHub** for streamlined deployment processes.
- Implemented Test-Driven Development (TDD) using Jest, Pytest for unit testing and Playwright for E2E testing, while utilizing BrowserStack to ensure cross-browser compatibility.
- Led a team of 8 engineers across 7 different project initiatives.

PROFESSIONAL EXPERIENCE



Senior Software Engineer

H2O.ai

Developed a low-code visualization platform enabling real-time dashboards, declarative UI, and Python-based extensibility.

- Implemented pixel-perfect, mobile-responsive UI using Vue3, MUI and built highly organized state-management logic with VueX.
- Collaborated with Data Scientists to implement data processing pipelines in the platform, utilizing technologies such as Python, FastAPI, TensorFlow, and natural language processing algorithms.
- Designed and deployed AWS Lambda functions using a serverless framework with Python to facilitate the integration of machine learning models.
- Developed and implemented RESTful APIs using Python to ensure seamless communication between frontend and backend systems and implemented documentation using Swagger.
- Integrated PostgreSQL database with ORM frameworks like SQLAlchemy to efficiently store and retrieve medical data for analysis and decision-making.
- Implemented DevOps practices using Docker and Kubernetes to streamline deployment processes and enhance
 the scalability and reliability of AI features on the platform.
- Provided mentorship to 3 junior engineers.

Full Stack Engineer

Auth₀

Enhanced the AuthO platform with improved UX/UI and security solutions, and developed a community platform.

- Developed over 60 standardized components using React, Typescript, Material UI and Storybook and released them as a UI library for internal company use.
- Delivered a dynamic, user-friendly, high-performance multi-browser compatible frontend application utilizing HTML/CSS, React, Next.js and Typescript.
- Collaborated with design teams to translate pixel-perfect UI designs using Figma.
- Designed database schemas to support various roles and permissions, leveraging PostgreSQL and integrated them using Prisma.
- Set up Apollo GraphQL server and integrated GraphQL queries and mutations on the frontend.
- Maintained application performance by creating and managing **Prometheus** dashboards for real-time monitoring and alerting.
- Setup virtual environment and containerization using **Docker** and **Kubernetes**.
- · Conducted unit testing using Jest to ensure project quality.



Frontend Developer

Amazon

Developed responsive web applications and optimized frontend performance for Amazon using React, Typescript, and AWS services while maintaining high code quality standards.

- Built lightweight web and mobile platform applications using HTML/CSS, React, React Native and Typescript.
- Built reusable UI components that improved developer productivity and ensured consistent design.
- Implemented client-side validation to enhance user experience and reduce form submission errors.
- Leveraged AWS services to optimize content delivery and user experience.
- Implemented automated testing using Mocha, maintaining 80% code coverage.
- Enhanced web accessibility and optimized frontend performance by implementing lazy loading techniques, code splitting and asset optimization, reducing page load time by 8%
- Designed a highly maintainable and scalable architecture through well-structured UI, API services and database design.

EDUCATION



Master of Computing (Computer Science Specialisation)

GPA **4.9** / 5.0

National University of Singapore



Bachelor of Computing (Computer Science)

National University of Singapore

m 01/2010 - 01/2014

= 01/2014 - 06/2015

SKILLS

Languages

HTML/CSS, Javascript, Typescript, Python, Go, C/C++, C#

Frontend Frameworks, State Management

React, Next.js, Remix, Vue, React Native, Expo, Electron, Nuxt.js, Angular, Redux, Recoil, MobX, Zustand, Jotai

Styles, Data Visualization

D3.js, Chart.js, ReChart, EChart, Material UI, Tailwind CSS, ShadCN, Radix UI, NextUI, Storybook, ChakraUI, AntD, Ionic, Figma, Sketch

Backend Frameworks

Node.js, Express.js, Nest.js, FastAPI, Django, Flask, Gin, Echo, RESTful API, GraphQL, Swagger

Database, ORM

MySQL, PostgreSQL, MongoDB, SQLite, Redis, Dynamo, Firestore, Prisma, SQLAlchemy

Cloud Services, Infrastructure, Testing, LLM

AWS, GCP, Superbase, Firebase, Docker, Kubernetes, ElasticSearch, Jest, Playwright, BrowserStack, GitHub Actions, Jenkins, Circle CI, Kafka, RabbitMQ, DataDog, Sentry, Grafana, Prometheus, LLM (OpenAI, Anthropic)