ROBERTO ALONSO PEREZ
Senior React and Backend Developer
Software Engineer

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IMPORTANT POINTS
- **Availability to move to a new position to any country but better to work remotely, if possible.**
- **I currently have two jobs at same time:**
  - **Current Job Position as an online Developer** at ZATACA SYSTEMS (https://zataca.es/)
  - **Professor of Backend:GraphQL, PostgreSQL, MongoDB, MySQL8 with Node/Python** at College of Software as a professor of "Web and Mobile Application Development "
  - **Professor of Frontend: React, Javascript, CSS, Tailwind, SASS, …**
  - **Professor of Data Structures and Algorithms.**

- **Proficiency in English with the C2 level and certificate**
- **B1+ level in French and German languages**

- **Leetcode: all the courses of Data Structures and Algorithms**
  - Dynamic Programming
  - Arrays 101
  - Graph
  - Heap
  - Recursion I
  - Recursion II
  - SQL Language
  - Bit Manipulation
  - Sorting
  - Linked List
  - Binary Tree
  - System Design
  - Binary Search
  - N-ary Tree
  - Binary Search Tree
  - Trie
  - Hash Table
  - Array and String
  - Queue & Stack
  - Decision Tree
  - and also System Design for Interview and Beyond.
  - Explore my profile in Leetcode: https://leetcode.com/u/RobertoAlonso/

- **GeeksforGeeks course of Data Structures and Algorithms**

- **Explore my Github repository:**https://github.com/web-roberto

- **Finishing now AWS "Certified DevOps Engineer Professional Certification", "Certified Developer Associate", "Practitioner".**

- **ZERO TO MASTER Academy in the courses**
  - Complete Web Developer in 2025
  - The Complete Junior to Senior Web Developer Roadmap (2025)
  - Complete React Developer in 2024 (w/ Redux, Hooks, GraphQL)
  - The CSS Bootcamp: Zero to Mastery
  - JavaScript: The Advanced Concepts
  - Complete Node.js Developer in 2024
  - Complete SQL + Databases Bootcamp
  - JavaScript Web Projects: 20 Projects
  - Complete Next.js Developer
  - Master the Pathfinding Algorithms with JavaScript and React
  - Java Programming Bootcamp
  - Master the Coding Interview: System Design + Architecture
  - Master the Coding Interview: Data Structures + Algorithms
  - Master the Coding Interview: Big Tech (FAANG) Interviews
  - AWS Certified Cloud Practitioner: Zero to Mastery
  - AWS Certified Solutions Architect: Zero to Master

- **"MASTER IN FULL STACK DEVELOPER" at the university of La Rioja.**
  - Frontend: Next, React (Classes and FC, Redux, React Query, React Table, Sockets), Angular, Javascript Vanilla, Typescript, MUIv5, Styled Components, Tailwind, Shadchan, CSS, SASS, Bootstrap, Bulma.

- Backend: MongoDB, Nodejs, Express ,MySQL, PostgreSQL
- Mobile: React Native

- **"MASTER IN SOFTWARE ENGINEERING AND SECURITY SYSTEMS" at the university of La Rioja.**
  - Web development: Javascript, React, React Native, **NodeJS , PHP(and Laravel), HTML 5**, CSS, JQuery, Spring J Java, Ajax, VSCode, GitHub, Bootstrap, XML, JSON, WSDL, SOA o SOAP.
  - Development in .NET**, Java** in environments: Netbeans, Eclipse, Visual Studio.
  - Mobile application development: **Android** Studio,...
  - Agile techniques: **Scrum**, XP, **Kanban** o Lean
  - Cloud Development: Google cloud computing, Microsoft **Azure, Amazon Web Services**.
  - DataBases: SQL, MariaDB.
  - Direction and project management: **Sinnaps**, MS Project.
  - Security management and auditing : **OWASP ZAP, eMarisma**, Paros, Badstore, NMAP, ModSecurity, Magerit, **Fortify SCA**, Microsoft Threat Modeling Tool, HP Webinspect, Scuba, Soap, TORproject o herramientas OSINT.

- **"UNIVERSITY EXPERT COURSE IN DEVOPS & CLOUDS at the university of La Rioja:**
  - Jenkins • Jest • Puppeteer
  - Selenium • Cucumber • Gherkin • Terraform • Podman • Docker • Kubernetes • Prometheus-Grafana
  - ELK • Kafka • Jupyter • Artifactory • Nexus • Pros-Contras • Access Management

- **Python Advanced Level with a Certificate at the university of La Rioja:**
- **Programmer of React (& React Native),** HTML/CSS/Javascript at College of Software.
- I like using Automatic End to End (puppeteer) and Integration tests (jest, supertest,...) before a commit.
- Mastering the technologies: MySQL8/MongoDB/Redis/FireBase, Node.js/Python/PHP Laravel,Symfony React.js/Angular, JQuery Webpack,Babel ,AJAX, Bootstrap 5, Tailwind CSS, Materialize CSS, SASS, Flexbox CSS, GRID CSS
- I develop in the stacks MERN (MongoDB, Express, React, and Node.js) ,MEAN (Angular), LAMP, (Linux, Apache, MySQL, PHP) and Nodejs with MySQL and PostgreSQL.
- Programmer with experience in C, C ++

- My LinkedIn: https://www.linkedin.com/in/roberto-alonso-perez
- A small profile:https://web-roberto.github.io/portfolio-cv/

OTHER ACADEMIC TRAININGS
- Computer Engineering Degree: Electronics and Computer Engineering Degree, Industrial Engineering and real-time (Reactive computing) at the Valencia Polytechnic University (Spain). The fourth and fifth courses, done in an academic year.
- Degree in Computer Science in the field of Physical Computer Systems at the Valencia Polytechnic University (Spain).
- Final Year Project (Dissertation) "Memory Management in Real-time Systems", D.I.S.C.A. (Department of Computing Engineering)
- Undergraduate in MSc in Computer Engineering at the University Department DISCA (Valencia Polytechnic University). Research Orientation.
- Undergraduate in Telecommunication Engineering at the Valencia Polytechnic University (Spain), 1st and 2nd course. Electronic Systems.

OTHER WORKING EXPERIENCES AS A:
- FREELANCE PROGRAMMER REACT (REACT NATIVE) and Backends Nodejs and MySQL (until now)

- ASSOCIATE PROFESSOR AT THE VALENCIA POLYTECHNIC UNIVERSITY:
1-10-2006 – 31-9-2007: Professor of training in Language C++ in the D.I.S.C.A (Department of Computing Engineering) at the Valencia Polytechnic University.

1-10-2008 – 31-9-2010: Professor of computer networks in the D.S.I.C (Department of Computerized Systems and Information Technology) at the Valencia Polytechnic University.

MORE WORKING EXPERIENCE AS :

▪ SCHOOL DIRECTOR IN A COLLEGE OF SOFTWARE
1-7-2006 – 31-6-2010: Director in the College "Jaume II El Just", Tavernes de la Valldigna (Valencia)
Spain. WIth 130 teachers under my responsibility..

▪ PROFESSOR IN A COLLEGE OF SOFTWARE:
21-5-1998 – NOW: Professor in College of Software and internship adviser in companies, with permanent-posts.
Taught subjects: Javascript, React, CSS, Node, PostgreSQL, MySQL,..

COMPUTER LANGUAGES
- Language JAVASCRIPT, REACT, NEXT, REACT NATIVE, at a College of Software
- Language C, C++. Professor of practice at the Valencia Polytechnic University.
- Languages Assembly Language (Machine)...at the Valencia Polytechnic University.

LANGUAGES:
- Spanish: Native speaker.
- Catalanish (Valencianish): Native speaker
- English: level C2 with title (proficiency)
- French: I am now studying at the B2 level. Enrolled at the EOI of Gandia.
- German: I am now studying at the B2 level. Enrolled at the Goethe Institute of Valencia
- Russian: My real level is B1. Courses at the State Linguistic University of Minsk (Belarus)

FORMER POLITICAL POST:
▪ Education counselor, Sports councilor, Tax councilor, Music school manager, New technologies councilor in the town council in Rotova, (Valencia) Spain.

TECHNOLOGICAL TEACHER TRAINING
▪ Pedagogical Adaptation Course (cap) at the Polytechnic University of Catalonia (Barcelone).
▪ Master´s degree in RPG (I.B.M.)
▪ Introduction to Scientific and Technological research. (Santiago Grisolía).
▪ Windows NT. Operating system and Network operator.
▪ Windows NT server. Local Area Networks and Internet.
▪ Standard software packages in Windows .
▪ Software applications in Management (MS Office).
▪ Social coexistence and Conflicts Management Techniques.
▪ Intervention strategies: Discipline problems in the classroom.
▪ Emotional education in the Tutorial action plan.
▪ Surfing on the internet.
▪ Seminars on Corporate Motivation.

HOBBIES
- Community Works: Teaching Spanish using Russian language for free at Red Cross for Ukrainian refugees.
- Amateur running races.
- Language learning.
- Traditional Valencian cuisine like Paella and listening to music.

ANNEX WITH SOME APPLICATIONS DEVELOPED BY ME

My Web Developments

▪ **App Travel (Couch Surfing)**
Technologies used: Project using Reactjs, MUI5, NodeJS, Express, Mongodb, Mongoose, MapBox, Google One Tap login, JWT authentication
This MERN project is similar to couch surfing where the user can offer his service to host other people or travelers even for free or for a small amount.
Offered rooms appear on the map or as normal cards on the page with more details and images slider.

Users can filter the rooms by the city or by the cost…

▪ Clone of Amazon with NEXT & MERN
Technologies used: NEXTjs, MATERIAL UI5, NODEjs MONGODB
A typical clone of Amazon for the web…

▪ Clone of Amazon with REACT & MERN
Technologies used: Fullstack MERN (Mongodb, Express, React and Node)
A typical clone of Amazon for the web…

▪ Instagram with React, GraphQL, Apollo, MongoDB and AWS
Technologies used: React, GraphQL, Apollo Server, Apollo Client, MongoDB, Amazon AWS S3, and Formik
A typical clone of Instagram for the web…

▪ A Full e-commerce with Nextjs
Technologies used: Next.js, React, Hooks, Strapi, Stripe, AWS, SASS, Formik, Yup, good practices and more
A typical e-commerce for the web…

▪ CRM for sellers with their clients and their sales
Technologies used: Next.js with SSR, GraphQL, MongodB, Tailwind
A typical e-commerce for the web…

▪ MERN CalendarApp
Technologies used: MERN CalendarApp with MongoDB, Express, React and Node
An interesting Calendar application to record my events…

My Node Developments

▪ CalendarApp
Technologies used: MERN MongoDB, Express, React and Node

▪ Rest API
Technologies used: Node, Express and Mongodb

▪ REST API
Technologies used: Node, Typescript and MySQL(sequelize)

▪ Chat with Sockets in Node... and

▪ Tickets Queue made with Node

My Real Time (with 'socket.io' and React) Developments

▪ Song Contest
Real-time voting in song contest React,'socket.io' and Node without Database…

▪ Real Time Tickets App
An office worker enters using a new tab and attends to the users of a single queue…

▪ Real Time MapApp
Client: React + sockets.io, Server: node w/o DataBase
Every client marks its position and it is shared to all the clients, so all the clients can watch in the map the position of all the clients in real time…

My Mobile Developments (React Native:Android & iOS)

▪ Instagram clone (React Native)

Technologies used: Fullstack with React Native and Typescript and AWS Services like Cognito, Lambda with Node js, DynamoDB, AppSync with GraphQL, Amplify and fully automated Continuous Integration and Continuous Delivery/Continuous Deployment
It is a real time clone of Instagram with the same functionality: recording from camera and attach photos and videos to my posts, click likes, write comments, notifications…

▪ **Mobile App for restaurants (React Native)**
Technologies used: Fullstack with React Native and Firebase
You can make orders on your mobile phone in real time, you pay it and the Admin processes the order and tells your the remaining time..

▪ **Mobile App: Project Manager (Clone of BaseCamp)**
Technologies used: Fullstack React Native, Apollo Server, GraphQL and MongoDB
A Project Manager app to manage your projects using your mobile phone (Android & iPhone)...

▪ **E-commerce app for Android & iOS with EXPO**
Technologies used: React Native using Stripe for payments (Native for Android & iOS)
It is an app for e-commerce made with Expo…

▪ **Tripadvisor for Restaurants. Mobile App Native**
Technologies used: React Native and Expo, Firebase & Firestore, Geolocation with Apple Maps and Google Maps (Native for Android & iOS)
It is a Tripadvisor application but for Restaurants…

▪ **Chat App for Android & iOS**
Technologies used: React Native in Real Time (Native for Android & iOS)
A typical chat for mobile phones…