

Matias Marti

Contact Information

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Summary

Fullstack developer with extensive technical knowledge. Responsible for the IT tasks at Qlocx AB for several years. Working with all parts of the stack, including building and maintaining iOS, Android, and web applications. Knowledgeable in Bluetooth Low Energy and IoT LwM2M, both in terms of device interaction and embedded source code development for hardware solutions. Regularly using Git, JavaScript, TypeScript, HTML, CSS, React, Koa, MongoDB, AWS, and many other languages and tools.

Work Experience

Qlocx AB

Software Developer/CTO

Location: Stockholm, Sweden

Dates: July 2019 - Present

Responsibilities and Achievements

Project Development:

- **Agile Work:**
 - Iterative work focused on specific tasks for each sprint.
 - Using Git with feature branches.
 - Involved in code reviews for pull requests.
 - Managing code conflicts and merges.
- **Automated Workflow:**
 - Configuring automated deployments for new versions of cloud services.

Databases:

- **Database Management:**
 - Managing MongoDB databases (NoSQL).
- **Data Collections and Structure:**
 - Deciding on practical and load-optimized queries and data structures.
- **Database Operations:**
 - Performing various operations such as aggregations, regular reads, and writes.
- **Optimization:**
 - Arranging automated deletion or archiving of certain data to optimize performance.
 - Creating indexes to improve the efficiency of important queries.
- **New Collection Structure:**
 - Planned and currently implementing a new design for parts of the database due to internal and customer needs. Also adapting the codebase according to this new architecture, with new aggregations and reads/writes.

Frontend Development:

- **Interface Building:**
 - Developing interfaces with JavaScript/TypeScript, HTML(5), and CSS(3).
- **Local Storage:**
 - Using localStorage (or UserDefaults/SharedPreferences for our native applications) to save session data like tokens and language settings.
- **Quality Assurance:**
 - Using ESLint and Prettier to write quality-assured code, which is also well maintained and consistent with these tools.
- **HTTP Requests:**
 - Makes HTTP(S) JSON requests to update data and retrieve data from the backend server to display in the interface in the company's application and web portal.

Frameworks and Libraries:

- **React:**
 - Building component-based frontend projects with the React library.
- **Dynamic Applications:**
 - Building dynamic applications based on sketches/design in Figma with a high focus on user experience.
- **Backend Frameworks:**
 - Using Koa, NestJS, or Express frameworks to create servers/APIs for own frontends or for customers. Using both JavaScript and TypeScript for these servers.
- **API Documentation:**
 - Reading and implementing the documentation for the above-mentioned and other frameworks/libraries in the company's codebase. Implementing a library that automatically generates Swagger files that document the company's codebase with information about API calls that can be made.

System Development and Integration with Third-Party Systems:

- **Fullstack Applications:**
 - Developing complete fullstack applications including search functionality for customer and internal use.
- **Data Exchange:**
 - Managing data integration with customers and partners via XML or JSON.
- **Data Analysis:**
 - Converting BSON/JSON data from MongoDB to CSV/TSV or Excel for data analysis.
- **API Testing:**
 - Testing APIs with tools like Insomnia, a tool similar to Postman.
- **Team Projects and Leadership:**
 - In addition to independent work, several projects are carried out in teams. Also leading a junior Fullstack developer colleague in backend and frontend development tasks.

Zlantar of Sweden AB

Frontend Developer

Location: Stockholm, Sweden

Dates: August 2018 - June 2019

Responsibilities and Achievements

Development:

- **Frontend Development:**
 - Coding the company's Android and iOS applications in React Native with Redux and other npm packages.
 - Rebuilding the company's website with server-side rendering of React using NextJS. Focus on search engine optimization and responsiveness for different screen sizes and devices.
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Volunteer Work

Caritas Sweden

Employee

Location: Stockholm, Sweden

Dates: February 2021 - May 2022

Tasks

- **Youth Activities:**
 - Contributed to starting and establishing the youth section within Caritas Sweden, which strengthened the Catholic Church's engagement in social and humanitarian work.
 - Participated in various activities for people in vulnerable situations.
 - **Caritas Meeting Place:**
 - Helped people with social difficulties by offering conversation, emotional support, and language support, facilitating their everyday life.
 - Prepared and distributed bags with food and hygiene items to those in need, ensuring their access to essential food and other necessary help.
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Education

University of Mary

Location: Bismarck, North Dakota, USA

Dates: September 2016 - April 2017

- Received athletic and academic scholarships
- Freshman year with general courses

Rudbeck

Location: Sollentuna, Sweden

Dates: August 2013 - June 2016

- Studied the natural science program
 - Opted for an extended program with 2900 high school points (16% more than the standard program)
 - Achieved the highest grades in all but 3 courses
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Courses

The Complete Web Developer in 2018

Website: <https://www.udemy.com>

Instructor: Andrei Neagoie

Dates: December 2017 - February 2018

Course Content:

- **Basics of Web Development:**
 - Introduction to HTML/HTML5
 - Basic CSS/CSS3
 - Using the SemanticUI library for semantic web applications
- **Responsive Design:**
 - Using Flexbox and CSS Grid for responsive layout for different devices and screen sizes
 - Introduction to the Bootstrap 5 library
- **JavaScript and DOM Manipulation:**
 - Basics of JavaScript
 - Understanding asynchronous JavaScript (including HTTP, JSON, and AJAX)
 - DOM manipulation for dynamic web applications
- **Version Control:**
 - Using Git and GitHub for version control
- **Terminal Commands and Development Environments:**
 - Basic tools for writing terminal commands
 - Using Node.js and NPM for library package management
- **Backend Development:**
 - Introduction to Express.js for building REST APIs
 - Designing REST APIs
- **Databases:**
 - Basic SQL and working with PostgreSQL
 - Authentication and authorization in web applications
- **Security and Production:**
 - Implementing security measures
 - Scalable infrastructure and deployment to production
- **Projects:**
 - Building complex applications and websites
 - Creating an image recognition application
 - Creating a startup landing page

Course Goals:

- Find the first job as a developer
- Build real-world applications and websites
- Understand the basics of web development and current trends
- Develop independence as a web developer
- Understand how frontend, servers, and databases interact
- Prepare for freelance work and independent projects

