

Daniele Cruciani
Backend and Cloud Native App Developer

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Skills

NodeJs, Software architecture Pattern, PHP, Javascript, ReactJS, GitHub, git branch workflow, Kubernetes administration, Kubernetes development, RabbitMQ message broker, Elasticsearch, ELK, Influxdb, Rust, Golang, Bash scripting, Linux administration

Work Experience

Backend Cloud Developer, xWave GmbH (Frankfurt Am Main, Germany)

2017 December – Present

- Setup, definition and network arrangement of backend Virtual Machines for development tools, such as Redmine, Jenkins and Gitea, in Docker Swarm environment as docker container to increase the ease of update and bugfix by following upstream instruction. This made it possible to maintain internally the software and increase internal knowledge of cloud orchestrator technologies
- Setup of production backend environment with 3 Virtual Machine, all running docker swarm, separated from development tool, and exposing REST service to Front End
- Implemented Backend / Frontend separation by adoption of ReactJS for frontend, and docker swarm in house developed API Gateway services (partially based on Traefik support for Docker Swarm). This reduced the time for deployment of a new single-page-application from one year to 3 months, on average.
- Port of script+cron architecture to task orchestrator architecture, improved the software observability and reduce the debug time from weeks to days.
- Introduced and settled up elasticsearch on premise for software debug and incident case treatment, this improved the customer satisfaction and reduced the unsubscribe request by 80%

Team Lead & Project Management, xWave GmbH (Frankfurt Am Main, Germany)

2017 December – 2022 March

- Led the onboarding of 4 new team members, reducing their ramp-up time by 50%.
- Installed Redmine and relative Agile modules for improving developer communication effectiveness and negotiate as soon as possible every feature, reducing time to market for new feature from 6 months to 4 weeks
- Installation, setup, and training on use of internal git repository software (Gitea) for supporting more branches of development
- Installation and setup of a development/QA web site to test new feature before release, improving development speed by 50%
- Introduced and trained developers on JenkinsCI for testing and deploying application to QA and Production platform, action based on webhook settled on Gitea, avoiding customer bad surprise and reducing developer stress-for-release effect: this increased developer deployment confidence by 2 orders of magnitude.
- Introduced rituals like daily scrum meeting, and periodic reports like “the state of development” every year, commenting success and goals, increasing staff vision and mission definition

Web/Backend Developer, xWave GmbH (Frankfurt Am Main, Germany)

2014 December – 2017 December

- Developed a Electron/Native App for desktop for printing of packlist and picklist improving shipment service experience and performance of workers
- Implemented a NodeJs service to automate retrieval of data related to customer ecommerce and platform accounts that reduced the number of incident by 50% and produced a more detailed reports to the customer in case of retrieval errors
- Developed new feature and bugfix of existing page using jqGrid and visualization library for showing selling performance to the customers
- Optimization of existing PHP code, reducing the page serving time from 4-5 seconds to 300ms
- Implemented grouping and caching of data in background by transparent ajax call improve customer experience for the 90% of the user base

Backend & Fullstack Developer, Linguistic Studio (Macerata – MC, Italy)

2013 September – 2014 July

- Implemented a SaaS in Nodejs providing REST API for synchronization of inventory stock of ecommerce (ebaysync)
- Developed a specific module for eBay API supporting Promises <https://github.com/danielecr/qebayapi>
- Drupal module using hook to communicate to ebaysync SaaS allowing subscriber to sell on more than one marketplace increasing the sold amount by 60%
- Developed AngularJs (1.0) interface for administration of the server that provide SaaS, customer registration, and user management.

Web Developer, WMR S.r.l. Studio Cappello (Remote - Padova)

2013 September – 2014 December

- SEO optimization on Drupla website to improve organic search position
- Bugfixing on ecommerce Drupal website for meet customer requirement

Web Developer, Linguistic Studio (Macerata – MC, Italy)

2010 October – 2012 December

- Development and customization of a number of Drupal commerce plugin, satisfying customer specific requirement for tax and fee option, and selling promotion campaign
- Customization of Drupal website as CMS for promoting hotels and other services

Web Developer, IRISNet Solution (Pisa – PI, Italy)

2010 August – 2014 May

- HTML fix for improving customer impact and conversion
- SEO optimization of html for improving organic position on search engines

Web Developer, IM Evolution (Taviano – LE, Italy)

2005 July – 2014 December

- SEO/SEM Optimization of a number of platform based on Perl, or PHP framework like Drupal, Indexu, Wordpress, improving indexing on search engines.
- Porting of perl based website to Wordpress platform.
- Implementation of administrative area for a perl based script generating html, improving data entry experience for worker and implementing per-page keyword and SEO targeted headers

Web Developer, Confestetica (Rimini – RN, Italy)

2009 May – 2010 June

- Implementation of a GUI based on AJAX similar to facebook post and comment to increase customer interaction and loyalty
- Reingegnerized PHP using templates, implementing Backend – Frontend decoupling to increase code cleanliness and improve speed of feature's development by 300%

Symbian C++ Developer, Portel S.r.l. (Milano – Mi, Italy)

2007 February – 2007 June

- Porting of Mobile App from Symbian OS 8.1 to 9.1 allowing upgrade of devices.

Web Developer, Wind S.p.a. (Pisa – PI, Italy)

2005 April – 2005 June

- Coding of XSL and XSLT to produce html content using internal CMS automating to 100% (once for all) the content update and keeping the presentation coherence
- PHP Template porting to the new platform for blog contents: adhering to newer w3c standard

PHP Developer, Dr.Net coop (Macerata – MC, Italy)

2004 May – 2004 June

- CMS Plugin development for lesson hour management (part of bigger project: Registro online)

Symbian OS Developer, A-Tono S.r.l. (Remote)

2003 June – 2004 January

- experimental project for selling premium content to end-user customer on symbian smartphone (Nokia 3650 / 7650). Billing system based on SMS reverse billing, data retrieval via Http. I prototyped the application, and produced a demo version with a static list of content, showing the limitation of version 6.1 OS as soon as possible (missing HTTP/1.1 stack on the API), allowing the company to spare money on research project.

Java (J2SE) Developer, Fulvio Santoni Snc (Camerino – MC, Italy)

2003 - 2003

- Development of Java applet for calculation of force in a reticular bridge, selecting and implementing a stable algo (Gauss/Jordan with pivot) for quickly evaluate the good arrangement of a reticular structure

Developer and Designer, Noze S.r.l. (Cascina – Pi, Italy)

2002 March – 2002 October

- Implementation of a monitoring application that collect data from remote client (hotels), improving customer usability and effectiveness of demanded (by law) information transmission.
- Billing system parser implementation that allow to charge customer for their services
- Analysis of various distributed filesystem for selling presentation and commercial propose

Projects

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2023

- Http reverse proxy in Rust: <https://github.com/danielecr/urocket-http-stage/> . This allow to define entry points by a .yaml file coupling each of those to shell command executing whatever is needed to satisfy the request. It is a kind of a simplified CGI for Docker Swarm

2014

- Q-Promise based npm (NodeJS) module for eBay API <https://www.npmjs.com/package/qebayapi>
- PHP / NodeJS compatibility layer for symmetric encrypt/decrypt AES128 <https://www.npmjs.com/package/aes128encrypter> this make easy and accessible the usage of AES128 algo in field out of ssl socket layer and promote development of secure software, by reducing development time for debug and check.

2006

- Computo Metrico: developed in Objective C with Xcode, a Mac OSX software for producing cost estimation of building works

Education

RustLab, Firenze

Github and git workflow workshop, Brussel

Computer Science Bachelor , University of Pisa

November 2023

January 2019

1994-2001