

# Goran Halusa

Web Developer at Quotient

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## Summary

Web Architect - Full-stack web developer - backend, front-end, server administration, and everything in between... I am currently a Web Developer for Quotient, Inc., working on the Smithsonian Contract, providing innovative technical solutions for the digitization effort for millions of Smithsonian assets. Some of my tools include PHP (Frameworks: Slim Micro Framework, Laravel), MySQL, JavaScript, jQuery, Node.js (Frameworks: Express, Geddy, Restify), Drupal, WordPress, SOLR, MongoDB, Git, Docker, Twig Templates, Mustache Templates, Amazon Web Services (AWS), EJS, Ruby, Sinatra, Twitter API, and Google Analytics API.

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## Experience

### **Web Developer at Quotient**

February 2015 - Present (2 years 3 months)

Smithsonian Contract - Providing innovative technical solutions for the digitization effort of millions of Smithsonian's assets. Tech Stack: PHP, MySQL, Javascript, jQuery, Drupal, Node.js, Docker, Apache SOLR.

### **Scientific Web Applications Developer at Leidos Biomedical Research, Inc.**

November 2009 - February 2015 (5 years 4 months)

Scientific Web Applications Developer for the National Cancer Institute's Advanced Biomedical Computing Center. Development, design, and maintenance of websites and scientific web applications, implementing open-source technologies such as Object-Oriented PHP, Javascript, and MySQL, with deployment on Linux-based platforms.

### **Web Developer at Sigma Space**

August 2009 - November 2009 (4 months)

Web designer, programmer, and systems administrator for the Earth Observatory Website, Visible Earth Website, Laboratory for Atmospheres, and the Hydrospheric and Biospheric Sciences Laboratory at NASA's Goddard Space Flight Center.

### **Sr. Programmer Analyst at SSAI**

October 2003 - July 2009 (5 years 10 months)

Web designer, programmer, and systems administrator for the Earth Observatory Website, Visible Earth Website, Laboratory for Atmospheres, and the Hydrospheric and Biospheric Sciences Laboratory at NASA's Goddard Space Flight Center.

## **Web Architect/Animation Artist at Virtual Flow, Inc.**

October 2000 - June 2003 (2 years 9 months)

Lead Designer of cutting edge graphical interfaces for web sites as well as interactive CD ROMs using programs such as Flash 5 & MX, Director 8.5, PhotoShop 7.0, ImageReady 7.0, Illustrator 10, GoLive 6, Dreamweaver 4 & MX, Dreamweaver UltraDev, BBEdit 6.5, Final Cut Pro 2.0, and Strata 3D. Implemented acquired knowledge of hand coding HTML, CSS, JavaScript, ColdFusion and ASP (Active Server Pages), as well.

## **Graphic Designer at Image Associates, Inc.**

April 1999 - July 2000 (1 year 4 months)

Developed real world, hands on graphic design skills at a full-service graphic design studio offering a variety of services including print, multimedia, web design and corporate presentations for shows and conventions.

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## **Publications**

### **Dockerizing Drupal (DrupalCon Proposal)**

Drupal Association January 15, 2017

Authors: Goran Halusa

Proposal for DrupalCon Baltimore, April 24-28 2017, Baltimore Convention Center

### **Dockerizing Drupal**

Baltimore Drupal Meetup December 14, 2016

Authors: Goran Halusa

Docker is a "software containerization platform" and hit the scene only 3 years ago, the latest toolkit in the virtualization ecosystem. Since that time, Docker has revolutionized the virtualization software industry.

Docker allows for independent "containers" to run within a single Linux instance, avoiding the overhead of starting and maintaining virtual machines, and guaranteeing that the software will always run the same, regardless of its environment.

To help demystify Docker, I have created a small web application called "Drupal Docker".

Drupal Docker creates a complete "Dockerized" Drupal environment running NGINX, PHP, MySQL, phpMyAdmin, and the latest copy of Drupal (7.x or 8.x). Simply fill out a form and download the resulting ZIP file containing everything needed to get a project up-and-running in as little as 2-5 minutes.

### **WordPress, Drupal, or a Custom Solution?**

Medium May 25, 2014

Authors: Goran Halusa

Often times developers implement a Content Management System (CMS) such as WordPress or Drupal for the underlying framework of a website. Doing so allows the end-user to have the means to update their

website content whenever needed. There are other situations where WordPress or Drupal are not the answer, and a custom solution is necessary.

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## Projects

### **Drupal Docker**

December 2016 to Present

Members:Goran Halusa

Drupal Docker creates everything needed to get a project up-and-running with a complete Docker environment running NGINX, PHP, MySQL, phpMyAdmin, and the latest copy of Drupal (7.x or 8.x).

The generated docker-compose.yml script is based on Docker4Drupal.

### **NASA Earth Observatory**

January 2008 to October 2010

Members:Goran Halusa

Redeveloped NASA's Earth Observatory from scratch. Took over 9 years of data, HTML, and imagery and re-ingested into a highly optimized and scalable database model. Rebuilt the customized Content Management System from the ground up, supporting the staff of writers and visualizers in their day-to-day publishing efforts. Reprogrammed the public website with scalability in mind.

### **NASA Visible Earth**

January 2008 to October 2010

Members:Goran Halusa

Maintained NASA's Visible Earth Website and server cluster. Prepared the underlying framework for redevelopment by centralizing the database to be shared by NASA's Earth Observatory Website.

### **NASA Hydrospheric and Biospheric Science Research Portal Website**

February 2005 to October 2010

Members:Goran Halusa

Web designer and programmer of the first dynamically driven Website and custom Content Management System for the NASA Hydrospheric and Biospheric Science Research Portal.

### **The PHP Skeleton App**

January 2015 to Present

Members:Goran Halusa

The PHP Skeleton App creates an object-oriented PHP MVC environment, tailored for rapid development. The environment makes use of the Slim PHP micro framework, Twig for templating, and Twitter Bootstrap 3 for the theme.

### **Node REST API**

January 2015 to Present

Members:Goran Halusa

A RESTful API Using Node.js

Lets an authenticated user insert and delete server configurations. Allows for the listing of server configurations with more than 100,000 entries. Allows for sorting the listing by name, hostname, port, or username.

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## Languages

**Croatian**

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## Skills & Expertise

**PHP**

**MySQL**

**node.js**

**MongoDB**

**JavaScript**

**jQuery**

**AJAX**

**Git**

**Apache**

**Web Applications**

**Web Development**

**Perl**

**Subversion**

**Dreamweaver**

**HTML 5**

**CSS3**

**Amazon Web Services (AWS)**

**Amazon EC2**

**Amazon S3**

**Slim Micro PHP Framework**

**Twig**

**Gump**

**Github**

**Bitbucket**

**Ruby**

**Sinatra**

**Ruby on Rails**

**Drupal**

**Wordpress**

**Tumblr**

**Twitter Bootstrap**

**Sublime Text**

**Nginx**

**Twitter API**

**Twitter**

**Facebook API**

**Linux server administration**

**Mac OS X**

**Web Design**

**Graphic Design**

**User Interface Design**

**XML**

**Iptables**

**jqPlot**

**Object Oriented Design**

**High Availability**

**JavaScript Frameworks**

**Prototype**

**Scriptaculous**

**OOP**

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## Education

**School of Communication Arts**

Certificate, Computer Graphic Design, 1998 - 1999

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## Interests

web development (design and programming), information technology, guitar, bass guitar, camping, hiking, art, mind expansion

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## Honors and Awards

**Webby Award: People's Voice Award Winner: Science**

The Webby Awards

June 2008

Group award

**SSAI Performance Award**

Science Systems and Applications, Inc.

June 2008

**SSAI Performance Award**

Science Systems and Applications, Inc.

June 2007

**Outstanding Technical Support Award**

NASA Climate and Radiation Branch

June 2006

**Webby Award: People's Voice Award Winner: Education**

The Webby Awards

June 2006

Group award

**Goddard Award of Excellence - NASA's Earth Observatory Team**

NASA Goddard Space Flight Center

June 2005

Group award

**NASA Laboratory for Atmospheres Peer Award**

NASA Laboratory for Atmospheres

June 2004

**NASA Hydrospheric and Biospheric Sciences Laboratory Peer Award**

NASA Hydrospheric and Biospheric Sciences Laboratory

June 2004

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[Contact Goran on LinkedIn](#)