



Wout Mertens

Warsaw, Poland • Member since December 16, 2014

Wout has over two decades of experience developing for and administering Unix platforms such as Linux, Solaris, and OS X. He excels at programming back-end and front-end services in a variety of languages, and holds a Master's degree in Computer Architecture.

Full Stack

SQL

JavaScript

CoffeeScript

Mac OS X

jQuery

WordPress

React.js

C

Perl

MySQL

PostgreSQL

WebSockets

AngularJS

Amazon Web Services (AWS)

C++

PORTFOLIO

Technicolor Virdata

AWS, S3, Ubuntu Linux, OpenStack, Django, Chef, Python, Ruby, Cassandra...

Cisco

Solaris, Linux, OS X, VMWare vCenter, C, C++, JavaScript, Java, Perl, SQL...

EXPERIENCE

SQL, 16 years

JavaScript, 4 years

Linux, 20 years

C, 20 years

Concurrent Programming, 19 years

Test-driven Development (TDD), 3 years

System Architecture, 14 years

Unix/Linux Virtualization, 11 years

AVAILABILITY

Unavailable

PREFERRED ENVIRONMENT

OS X, Linux

THE MOST AMAZING...

“...thing I've built is a winning hackathon entry that scrapes government sites for addresses and presents them along with corresponding GPS coordinates.”

EMPLOYMENT

Senior Devops Engineer

Technicolor Virdata

- Built orchestration as a component in OpenStack, written in Python with Django. Connected to many servers at once over SSH to control their boot processes.
- Maintained Chef recipes describing the platform, including writing, refactoring, and release management.
- Devised a release process and Git branching model for the group.
- Built and managed a work network, including Linux-based firewall with dual simultaneous uplinks to separate providers.
- Managed Monit installation and distributed monitoring setup.

Technologies: AWS, S3, Ubuntu Linux, OpenStack, Django, Chef, Python, Ruby, Cassandra, MongoDB, Kafka, ZooKeeper, Monit, Ganglia

2014 - 2014

Sysadmin, Senior Sysadmin, IT Architect

Cisco

- Supported users on 2000+ Solaris workstations worldwide, including creating a variety of tools in shell scripting languages for administration.
- Built an internal virtualization platform based on Cisco UCS servers, SAN, and VMWare.
- Created a cross-platform web-based firewall-piercing remote desktop solution based on VMWare and VNC. Developed the first iteration in Perl and the second in Node.js.
- Built a VNC session manager in Perl that connected to servers over SSH and created virtual desktops with a choice of desktop environment.
- Built an embedded Linux thin client image allowing cheap PCs with no fans to be used as terminals upon insertion of a USB dongle.
- Co-wrote a web app allowing concurrent multi-user editing of notes and metadata, based on ShareJS, jQuery, and HTML5/CSS. Extended ShareJS to enable presence notifications.
- Built tools and an API in CoffeeScript with Promises/A to data-mine a Lithium social platform over REST in a highly parallel manner.

Technologies: Solaris, Linux, OS X, VMWare vCenter, C, C++, JavaScript, Java, Perl, SQL, NoSQL, AngularJS, jQuery, ShareJS, Socket.IO, WebSockets, MySQL, PostgreSQL, SQLite, CouchDB, Red Hat

EXPERIENCE

Hackathon entry (Development)

<https://github.com/wmertens/MojeZdrowie>

This project was a winning entry in the ConnectMedica Hackathon one-day in November 2014, built over the course of one day. It uses Node.js, CoffeeScript, and Promises (Q framework).

It screen-scrapes a government site for addresses and presents the data together with separately retrieved GPS coordinates over a simple REST API.

Nix language syntax highlighting (Development)

<https://github.com/wmertens/sublime-nix/blob/master/nix.YAML-tmLanguage>

This is a regex-based syntax highlighter that highlights and marks errors in the Nix language (<http://nixos.org/nix>).

It is interesting because regex-based parsers normally only mark single words or operators and cannot enforce a chain of multiple matches.

Here, nesting is used together with look-forward end conditions to enforce chained matches.

Pac-man watch (Design)

<https://plus.google.com/+WoutMertens/posts/WdtQzTet99r>

A neat working design of Pac-Man eating time on a watchface.

libvirt patch (Development)

<https://github.com/hooklift/node-libvirt/commit/a3117f1c8b3059205d76f7738b9f1e5595db005c>

This C++ patch enables authentication by connecting to virtualization servers.

SKILLS**Languages**

Bash, SQL, CoffeeScript, JavaScript, Perl, C, C++, Ruby, PHP, Python

Frameworks

Mocha, AngularJS, Django, Ember.js, Ruby on Rails

Libraries/APIs

Q promises, React.js, Should.js, jQuery, WebSockets, Backbone.js

Tools

VMware, Nginx, Apache, Chef, Docker, KVM/Qemu

Platforms

Ubuntu, WordPress, Mac OS X, Red Hat Linux, Linux, Amazon Web Services (AWS), Xen, SoftLayer

Misc

Regular Expressions, HAProxy, VMware ESXi, NixOS, System Architecture, Unix/Linux Virtualization, OpenStack

Paradigms

Concurrent Programming, Test-driven Development (TDD), Agile Software Development, Functional programming

Storage

MongoDB, MySQL, PostgreSQL, Redis, Memcached

EDUCATION**Master's degree in Computer Architecture**

Ghent University - Ghent, Belgium

1994 - 2000
