Jonathan **Muller**

VICE PRESIDENT OF ENGINEERING

□ | ■ | # jonathan.pukogames.com | □ pukoren | ≧ jonathan-muller | □ jonathanmuller0

Experience _____

Dial Once Paris, France

VICE PRESIDENT OF ENGINEERING

Oct. 2014, Today

- · Engineering team management and planning
- · Ship on time features with highest technical quality
- Ensure our uptime, latency and woldwide availability requirements
- · Define coding guidelines and development workflows, ensure code quality
- · Deploy a scalable and modular production environment, using a coherent Microservice architecture

Chronoresto Saint-Ouen, France

FULL STACK ENGINEER

SOFTWARE ENGINEER

Jun. 2013 - Sep. 2013

Jul. 2012 - May. 2013

- Tech lead on new partnership development with Yelp
- · Maintain and improve the current website made with ASP.NET MVC and Orchard
- · Add new features to our order managment system where orders are sent live, ASP.NET MVC

Sien (Adaptive Bee) Paris, France

- Steam-like software development based on Chromium
- R&D on a deskband Launcher for Windows 7, using C++
- R&D on a messaging system inside chrome extensions using websocket protocols
- New browser POC based on a Chromium fork (now UR browser)

Asset Technology La Defense, France

SI MANAGER

Jul. 2011 - Jun. 2012

- ERP development (VB6 to C#.NET migration)
- · Computer fleet management (orders, maintenance, inventory) and technical support
- Design, plan and develop and remote update software for the computer fleet

Mediaplazza (Digital Virgo)

Paris, France

Jul. 2009 - Dec. 2010

WEB DEVELOPER

• CMS development (fullstack) for mobile phones with low display capacities

• Development of B2B projects

Technologies

Languages and frameworks (currently skilled with) JavaScript, PHP, C/C++, Java (Android), Docker | Node.js, Codelgniter

> Architecture and conception skills Microservices, Image analysis, A.I, Generic/Predictive Algorithms Cloud AWS (S3, Beanstalk, EC2), Azure (Virtual Machines), Docker Cloud

Databases and Brokers MongoDB, MySQL, Redis, RabbitMQ

Code quality and collaboration tools Sonarqube, CircleCI, Codeship, Git & GitHub, irc, Slack

Not mastered (or forgotten skills) Python, C#, Swift, OpenGL, Unity3D, Blender, SQL Server, Oracle

Education

ESGI(École Supérieure de Génie Informatique)

MASTER 3D AND VIDEO GAME INGINEERING

Paris, France

· Learning algorithms (genetic mutation) development

2009 - 2011

- Research and publication on loading times optimisations on slow mediums
- Serious game development about animal ill-treatments and the meat industry

ESGI(École Supérieure de Génie Informatique)

Paris, France

BACHELOR ENGINEERING OF CS AND INFORMATION TECHNOLOGIES

2011 - 2012

- Real-time game development on mobile platform with high technical challenges (PSP handheld, Dreamcast)
- Multiplatform development and C++ memory management research

ITIN(Institut des Techniques Informatiques Nixdorf)

Cergy, France

2009 - 2011

LICENSE ENGINEERING MANAGER APPLIED TO CS SEProjectmanagement, agile methods (PUMA, SCRUM) NATHAN MULLER · CURRICULUM VITAE

- Conception and development techniques
- · Network layers research and packet analysis

Extracurricular Activity

Pukogames (Independant Open Source video game development group)

France

ACTIVE MEMBER AND FOUNDER

- Sep. 2010 Today
- R&D on new web technologies and 3D tools
- Prototypes development over a wide range of devices (PSP, Dreamcast, Linux, Windows, Xbox360)
- A real passion for performances and cross-platform software

XK-Project (Non-official charity organization)

International

Co-Founder 2006 - 2010

Offered game servers, events and communication tools for free and without limitation for more than 2000 players

Projects

Liquid Impulse Paris

CONCEPTION AND DEVELOPMENT Mar 2014

- R&D on cross-compilation Unix > PSP
- Optimisation of memory consuption using C++ extensively

KFC (Kute Frightened Chicken) - Serious Game

Paris

CONCEPTION AND DEVELOPMENT (POC)

2014

· Research on serious game mechanism, and the impacts on the player

Paris Speedrun

CONCEPTION AND DEVELOPMENT

2013 - new version coming on Github

- R&D on cryptography techniques and data integrity checks
- Differential computation system to ensure a similar game experience on various devices
- · Physics engine integration and wiring with the 3D engine

Exploot Paris

CONCEPTION AND DEVELOPMENT 2013

- R&D on UDP communication and transfert optimisation / tradeoff
- · Research on prediction algorithm and temporal computation to compensate network latencies between players

Speedball **Paris**

CONCEPTION AND DEVELOPMENT

· R&D on indirect-control game mechanism

Publications

Game loading optimization techniques in Open World games

Mar. 2014

2012

AUTEUR

· State of the art presentation for loading techniques on low performances mediums (optical disks mostly)

- Research on mechanism to reduce loading times
- · Comparative charts and reports on compression formats, and storage allocation for medium space optimisation and read speed

GitHub

Open Source projects

GitHub

Apr. 2013 - Today

- /PuKoren/exploot-server: Networking and client/server architecture using C++
- /PuKoren/liquid-impulse: cross-platform game, with high performances challenges (PSP)
- · /PuKoren/speedrun: a game engine architecture, with Physics world bindings to update game objects
- /PuKoren/.config: because you can learn a lot about me by reading my config