

Mark Moissette

Software Developer

Born: 18-07-1981

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Hi, my name is Mark, an experienced programmer with a focus on all things Javascript & 3D!

SKILLS

Web Development

javascript | webgl | node.js | streams |
electron | html | css | nan

System

linux | docker | cli

3D design

analysis | low & high poly | wings3d |
openscad | openjscad | parametric

Frameworks

vue.js | react | cycle.js | rxjs | ramda |
arduino

Testing

ci | tdd | e2e | unit

Robotics

microcontrollers | sensors | esp8266 |
arduino

Development

algorithms | analysis | c++ | python | elixir |
c# | git | dat | p2p

3D printing

fdm | mechanical | process

EXPERIENCE

Web/ Full Stack Developer at Various 2020 - 2020

javascript | webgl | node.js | docker | server

Development, Upgrade, overhaul of Server & client side WebGL/Js apps

- Universal Server & client side WebGL/Js apps
- Development, deployment, maintenance of Dockerized apps

Web/ Full Stack Developer at <https://stykka.com> 2018 - 2019

javascript | webgl | node.js | vue.js | html | css | elixir | cad | cnc | e2e | testing

Development of cnc UI & 3D viewer (Node.js, WebGL, Vue.js, Elixir)

- reusable, modular software components
- backend & frontend (Elixir, Webpack etc.)
- setup for e2e testing (TestCafe)
- Docker container creation & deployment

Web/ Full Stack Application Developer at <https://ultimaker.com> 2014 - 2018

javascript | webgl | node.js | cycle.js | html | css | cad | 3dprinting | parsers | mobile

Development of 3D viewer / modelling / rendering software (Node.js, WebGL, React, Cycle.js)

- reusable, modular software components
- backend, frontend, mobile app (Browserify, Webpack etc.)
- Docker container creation & deployment (server side webgl rendering etc)
- 3D printing tooling software research & prototyping

Software Developer / 3DP technician at <https://www.kit.edu> 2014 - 2014

javascript | webgl | node.js | polymer.js | html | css | elixir | cad | 3dprinting | accessibility

Development of accessibility database (Sight/Hearing/Wheelchair etc.) & UI (Javascript, Polymer)

- Maintenance and use of 3D Printers (creation of custom 3D printed designs etc)
- Development of ui & backend for custom 3D scanner software
- Migration of [node-opencv](https://github.com/peterbraden/node-opencv) c++ bindings to use Nan

Software Developer/ Bioinformatician at <https://urgi.versailles.inra.fr> 2011 - 2014

python | agile | r | git | shell | bioinformatics | science | jira

Development of bioanalysis Pipelines in Python/ R/ C++/ Linux Shell (Agile)

- Development of bioanalysis Pipelines in Python/ R/ C++/ Linux Shell (Agile)
- Organisation of migration of all software to Git
- Migration of Software to virtual machines / parallelization

Test Technician/ Software Developer/ Database Manager at <https://microapp.com> 2007 - 2010

javascript | mysql | php | c# | nsis | testing

Development of automation systems and UI for the generation of installations programs

- Digital signatures management (nsis + php + C#)
- Creation & maintenance of the internal bug-databases (Mantis/Php/MySQL)

Web-Developer at <http://www.ciblo.net> 2005 - 2005

javascript | mysql | php

Development of various websites & backend data treatment

- php/ mysql
- js/html etc

Software & Database Developer at <http://www.elogis.de/> 2004 - 2004

javascript | mysql | php | delphi

Development of various websites & backend data treatment

- php/ asp/ delphi

Core maintainer/ Developer at <https://github.com/jscad> 2016 - Current

Upgrade to modern Es-next, development of core features & UI of parametric 2D/3D modeling program (Javascript, Node.js)

- development of core modeling & maths features, UI
- creation of a desktop app (Electron)
- migration from monolithic code to node modules
- setup and addition of a huge amount of unit tests

Creator/ Developer at <https://github.com/kaosat-dev/CoffeeSCad> 2012 - 2017

Development of core & UI of parametric 2D/3D modeling program (Javascript, Coffeescript, Node.js)

3D printing at undefined 2010 - Current

years of experience in working with printers: possibilities, challenges, limitations, design etc

- design & creation of multiple 3D printers
- extensive knowledge of processes, technical and human aspects (UI, design, formats)
- worked for European Leaders of Open Source 3D printers ([Ultimaker BV](https://ultimaker.com/)) / [youmagine.com] (youmagine.com))
- organization of 3D printing workshops

3D Design & modelling at undefined **2001 - Current**

Low/High poly, Wings3D, 3DSMAX, Blender, OpenSCAD, OpenJSCAD etc

- designed & created 3D models for various realtime & pre-rendered projects
- creation of numerous [3D-printable](https://www.thingiverse.com/ckaos/about), parametric designs

Electronics, sensors, robotics at Electronics, sensors, robotics **2002 - Current**

Electronics, sensors, robotics

- Use of Microcontrollers (Arduino, Eps8266, Raspberry Pi etc)
- Creation of Sensors systems, mechanisms, diy multi touch displays etc
- Creation of [Robots](https://github.com/PiRo-bots/kiwiikee) for Kids: mix of code, 3D design & 3D printing
- Environmental monitoring & control for plants etc...

Mentor at <http://coderdojo-saar.de/> **2018 - Current**

Code-Mentoring for kids !

- Scratch, Hour of Code etc
- Motivation via accessible electronics: Calliope Mini & co
- occasionally combining designing via code (openjscad) & 3D printing !

Organizer at 3D printing workshops **2012 - 2014**

Organisation of multiple 3D printing workshops: study, assembly, operation

ECS Paris, France at CNAM

2008 - 2010

computer science |biochemistry |bioinformatics

Bachelor in Computer Science Amiens, France at IUT Amiens

2003 - 2004

computer science

Bachelor in Applied foreign Languages Lyon, France at Lyon2 Lumière

2000 - 2003

languages |german |english

GED Lyon, France at Lyon

1999 - 1999

LANGUAGES

English

Fluent

German

Fluent

French

Native speaker

Hungarian

Native speaker