Mark Moissette

Software Developer

Born: 18-07-1981

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○ kaosat-dev   ,in mark-moissette

Hi, my name is Mark, an experienced programmer with a focus on all things Javascript/web, modular software & code, and 3D!

SKILLS

Web Development

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

Frameworks

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

Development

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

System

linux |docker |cli

Testing

ci |tdd |e2e |unit

3D printing

fdm |mechanical |process

3D design

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

Robotics

microcontrollers |sensors |esp8266 | arduino

EXPERIENCE

Web/ Full Stack Developer at Various 2020 - 2021

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, maintance of Dockerized apps

Webgl / js developper at Crystal Dynamics Singapore 2020 - 2020

javascript |webgl |node.js |html |css

Development of 3d data visualizations

- reuseable, minimalistic modular software components
- Webgl visualizations with large datasets
- Backend integration for real time data flow

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)

- reuseable, 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)

- reuseable, 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)
- 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/kiwikee) 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 Languagues 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