# Dimitri Sabadie

Born on 15th of March 1992

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French driving license (B)
French nationality

# Software Engineer

## *Skills*

| | |
|---|---|
| Programming languages | **Rust**, **Haskell, C**, **C++**, C#, D, Elm, Idris, Java, Javascript, Python |
| Shading languages | **GLSL330–450** |
| Scripting languages | Bash, sh, zsh, Perl |
| OS | Mac OSX, **GNU/Linux**, Windows |
| Web servers & APIs | Apache, Nginx, Happstack, **django**, **servant-***, warp, **rocket-rs** |
| Build systems | shell, cabal, CMake, **git**, make, **docker**, autoconf, automake, **cargo**, rancher, ansible |
| Markup languages | CSS, HTML, **Markdown**, Pandoc |
| Storage | SQL Server, MySQL, Oracle, sqlite, mongodb, **PostgreSQL**, Event Store, LevelDB |
| Debug & Testing | gdb/pdb, valgrind, perf, rr, lldb, gtest, gmock |
| Misc | JNI, React Native, djinni, polly |

## *Experience*

### Open Source / Free software (non-exhaustive)

#### As an author

| | |
|---|---|
| spectra | Rust demoscene framework (rendering, animation, synchronisation, sound). |
| luminance | Rust / Haskell graphics framework (type-safe, stateless, OpenGL / Vulkan). |
| glsl | Rust GLSL450 parser and various compilers / transpilers. |
| wavefront | Haskell Wavefront OBJ loader. |
| warmy | Scarce resource hot-reloading Rust crate. |
| al | OpenAL 1.1 Haskell binding. |
| splines | Splines in N dimensions. |
| monad-journal | Pure monadic logger (typeclass and monad transformer). |
| phaazon.net | Written with Servant; hosts my portfolio and my blog. |
| tellbot | Bot IRC (HTML link detection, messaging, channel administration, etc.). |

| | |
|---|---|
| hid | HID Haskell binding (via libusb). |

As a contributor

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|---|---|
| rust-lang/rfcs | Several RFCs and design docs submitted, accepted/implemented. |
| sebcrozet/nalgebra | Quaternion exponentiation / various generic fixes. |
| google/font-rs | Various Rust fixes (enhancements, good style coding, etc.). |
| PistonDeveloppers/wavefront_obj | Added more parser elements. |
| corsis/clock | Patch for Windows monotonic clocks. |
| ekmett/gl | Fixed the specifications (gl.xml) parser. |
| ekmett/linear | Added dilatation matrices in N dimensions. |
| fpco/stackage | Stackage LTS snapshots contribution with all my Haskell packages. |
| kazu-yamamoto/ghc-mod | Fixed compiler bugs and helped adding monad-journal. |

## Demoscene

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|---|---|
| Outline Invitation | PC Demo Linux/Windows released at Revision 2017. |
| Céleri Rémoulade | PC Demo Linux/Windows released at Evoke 2016. |
| Heat Station | Intro 64k Windows released at Evoke 2013. |
| Lightning Road To Liquid Radiator | Intro 64k Linux released at Outline 2013. |

## *Employment experience*

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|---|---|
| 2018 – present | Ledger — Software Engineer on core lib (C/C++/JS/React Native/Java/JNI/Scala/Rust, cryptography, blockchain) |
| 2017 – 2018 1.8 years | Vente-privee.com – Software Engineer (OMS, Order Management System, micro-services, web APIs, front, back, fullstack). |
| 2015 – 2017 1.5 years | Sculpteo – Software Engineer (shading, mesh reparation, format parser, site integration, sysadmin / stack architecture, production solutions, front, back, etc.). |
| 2012 – 2015 3 years | Essilor – Industrialization and Production manager assistant (production and infrastructure). |
| 2012 (3 months) | Multeegaming – Trainee Web Zend Framework. |

## *Education*

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|---|---|
| 2012 – 2015 | École Française d'Électronique et d'Informatique (EFREI) – Software Engineer CTI |
| 2014 | Ten weeks long immersion in England – Staffordshire University |
| 2010 – 2012 | IUT Bordeaux 1  département informatique – DUT Informatique |
| 2008 – 2010 | Lycée Les Iris – Baccalauréat SSI Mathématiques AB |

## *Languages*

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|---|---|
| Français | Native |
| English | Professional proficiency  (TOEIC 915, ILR 4) |

## *Miscellaneous*

Sport, swimming, wakeboard, skiing, demoscene, numeric art, music, electric guitar, cinema, chocolatines…