

Jaseem Abid

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Work Experience

- 12/16 - 05/17 **Backend Engineer**, *Instamojo*, Bangalore, IN, <https://instamojo.com>.
Worked on implementing the credit card storage server as part of the backend team and pushed for overall quality of the codebase.
- 10/15 - 09/16 **Platform Engineer**, *Fybr*, Bangalore, IN, <https://fybr-tech.com>.
Developed a distributed stream processing engine in Erlang to power the core of an IoT platform. Streams and workers were distributed among a cluster of nodes, with focus on fault tolerance and consistency. I played a key role in the architecture of the platform and implemented the necessary distributed consensus algorithm (RAFT).
- 02/14 - 09/15 **Member, Technical Staff**, *Ideadevice*, Bangalore, IN, <https://ideadevice.com>.
Developed a mission critical automation suite used by some of the largest financial institutions of India. Built the automation engine, various backend services and user interfaces.
- 07/13 - 02/14 **Freelance developer**, Bangalore, IN.
Worked with various clients in domains such as native Android applications, social games, social media analytics, adaptive video delivery & interactive content.
- 10/12 - 07/13 **UI developer**, *Healthlucid*, Fremont, CA, <https://healthlucid.com>.
Designed and built the entire web application for a nascent health care startup with Ruby on Rails and Backbone.js.

Projects

Olifant, A compiler for a lambda calculus like language targeting LLVM IR.
<https://github.com/jaseemabid/Olifant>

Functorrent, A bittorrent client in Haskell with focus on code clarity and correctness.
<https://github.com/jaseemabid/functorrent>

Storm, Yet another actor model implementation in Haskell.
<https://github.com/jaseemabid/storm>

Lisper, A tiny scheme interpreter in Haskell.
<https://github.com/jaseemabid/lisper>

Libnodegit, Native git bindings for node.js with libgit2.

Education

05/17 - 08/17 **Recurse Center, NYC**, <https://recurse.com>.

Attended a 3 month self directed, community driven educational retreat for programmers working on several projects including a compiler for a small programming language targeting LLVM, learning x86 assembly and Rust programming language, learning to micro benchmark code and the nuances of linkers.

See: <https://jaseemabid.github.io/2017/07/04/compiler.html>

04/09 - 06/13 **Bachelor of Technology in CSE**, *National Institute of Technology, Calicut*.

Technical Skills & Areas of Interest

Compilers. Interested in making programming languages safer by eliminating large a class of runtime errors with static code analysis and advanced type systems.

Programming languages. Proficient in Haskell, Erlang, Python & JavaScript. Comfortable in C/C++, Java, Scheme, Clojure & Rust.

Distributed Systems. Professional experience in Erlang building distributed consensus algorithms and log processing systems.

Miscellaneous

Conference How I learned to stop worrying and loved the flux, Metarefresh 2015.

Speaker <https://www.youtube.com/watch?v=0vEp99fD6v0>

Organizer Papers We Love, Bangalore chapter - A repository of academic computer science papers and a community who loves reading them.

<http://paperswelove.org>

Bangalore Haskell meetup; FOSSMeet NIT Calicut

Baja SAE India Designed and fabricated an All Terrain Vehicle for Baja SAE India 2012, an annual intercollegiate ATV design competition and secured 16th place overall out of the 250+ teams with multiple category awards. <https://www.facebook.com/teamunwired>