

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.

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.

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>

Blogs Lessons learned building a toy compiler.
<https://jaseemabid.github.io/2017/07/04/compiler.html>

What did I do at Recurse Center?
<https://jaseemabid.github.io/2017/08/10/rc.html>

Organizer Papers We Love - A repository of academic computer science papers and a community of almost 1700 people who loves reading them. I organized about 20 meetups over the last 3 years. <http://paperswelove.org>

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>