Jaseem Abid

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▬▬▬ Work Experience

10/2015 - 09/2016	**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 algorithms (RAFT).
02/2014 - 09/2015	**Member, Technical Staff**, *Ideadevice*, Bangalore, IN, `https://ideadevice.com`. Developed a mission critical automation suite used by various large financial institutions. I was part of the team that built the run book execution engine, various backend services and user interfaces.
2013 - 2014 (9 Months)	**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 etc
2012 - 2013 (7 Months)	**Lead UI developer**, *Healthlucid*, Fremont, CA, `https://healthlucid.com`. Designed and built a fairly complex web application for a nascent health care startup with Ruby on Rails and Backbone.js

▬▬▬ Projects

Title	**Functorrent**, A bittorrent client in Haskell
Description	A bittorent client with focus on code clarity and correctness. The project let me experiment with various concurrency models, IO and several other aspects of Haskell and GHC.
Source	`https://github.com/jaseemabid/functorrent`
Title	**Storm**, Yet another actor model implementation in Haskell
Source	`https://github.com/jaseemabid/storm`
Title	**Lisper**, A tiny scheme interpreter in Haskell
Description	Lisper aims to be a Scheme like lisp with Haskell like types.
Source	`https://github.com/jaseemabid/lisper`
Title	**Libnodegit**, Native git bindings for node.js with libgit2. *(Unmaintained)*
Description	Undergraduate Thesis. Libnodegit bridges the gap between JavaScript and Git, with a native node.js module in C++, inspired the Ruby library that powers `github.com` called *grit*

Education

2009 - 2013 **Bachelor of Technology in CSE**, *National Institute of Technology, Calicut, 6.5 CGPA*.

Technical Skills & Areas of Interest

Programming languages. I look for ways to make better programming languages and techniques that reduces programmer errors. Learning what advanced type systems, formal proofs and specifications can contribute. Interested in static code analysis, property based testing and dependent types. Working towards that mythical *Sufficiently Smart Compiler*.

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

Distributed Systems. Professional experience in Erlang building distributed consensus algorithms and log processing systems. Always wondering how to solve the problem with more than a single computer and what happens when one of them fails unexpectedly.

Computer Networks. Good understanding of network protocols in Internet, Transport and Application layers.

Version Control Systems, Data Visualizations and Interactive content

Miscellaneous

Conference How I learned to stop worrying and loved the flux, Metarefresh 2015.
Speaker `https://www.youtube.com/watch?v=OvEp99fD6v0`

Trainer Various sessions on Python, Git etc.

Organizer Papers We Love, Bangalore chapter - A repository of academic computer science papers
and a community who loves reading them.
`http://paperswelove.org`
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Bangalore Haskell meetup; FOSSMeet NIT Calicut

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