Jaseem Abid

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Work Experience

11/17 - Current   **Senior Software Engineer**, *Red Hat*, Bangalore, IN, `https://redhat.com`.
Worked on the build, CI/CD component for an end to end cloud native application development platform called Openshift.io with Jenkins.

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.

Education

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

Attended a 3 month self directed, community driven educational retreat for programmers at NYC. I worked on several projects including a compiler for a small programming language targeting LLVM and micro benchmarking machine code. I learned x86 assembly, Rust programming language and the nuances of linkers and operating systems.

`https://jaseemabid.github.io/2017/08/10/rc.html`

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

Relevant Projects

Incremental An educational scheme compiler built in an incremental fashion with strong focus on testing, documentation and experimentation. I've been working on an extended tutorial with much more details and the current draft is available at `https://jaseemabid.github.io/preview/inc.html`

Olifant A compiler for a lambda calculus like language targeting LLVM IR. Worked with LLVM to understand the design and implementation of a high performance IR, high level language bindings and the myriad optimizations modern compilers do.

Functorrent A bittorrent client in Haskell in which I experimented with various concurrency models to do massively parallel IO workloads.

Storm A small actor model implementation in Haskell inspired by Erlang.

Lisper A tiny scheme interpreter in Haskell.

Technical Skills & Areas of Interest

Compilers Interested in making programming languages safer by eliminating runtime errors with static code analysis and advanced type systems. Implemented several small compilers and interpreters in Haskell (all the source code is available on github).

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.

Writing I enjoy long form writing - notes, technical documentation or journals. I try to blog at `https://jaseemabid.github.io` when possible.

Miscellaneous

Conference Speaker How I learned to stop worrying and loved the flux, Metarefresh 2015. `https://www.youtube.com/watch?v=0vEp99fD6v0`

Papers we love A repository of academic computer science papers and a community of almost 1700 people who loves reading them. I organized about 30 meetups over the last 3 years in Bangalore. `http://paperswelove.org`
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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`