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Work Experience

2012-2015

Software Engineer and Manager/Tech Lead for [WibiData, Inc](#) (San Francisco).

As the fourth employee at a Big Data startup, I helped grow the company from six people to over forty, surviving one name change and three changes of logos. Technical responsibilities revolved around the development of a personalization platform and applications on top of Hadoop, HBase, and Cassandra.

I was the project/tech lead on the effort to open source our technology, responsible for breaking down the large effort into manageable, prioritized tasks for the entire team. This was the beginning of the [Kiji Project](#). I also was the tech lead on our earliest real time scoring component, [Kiji Scoring](#)

As we grew, I transitioned to a dual technical-managerial role, managing ten direct reports during my tenure (a maximum of five at one time).

My last position was Tech Lead/Manager of the platform team, responsible for the lowest level core technologies in WibiData's architecture as well as our internal build tools and scripts.

2011 (3 months)

Software Engineer at [Panasas](#) (Pittsburgh, PA).

Internship after leaving grad school. Relevant project work was the instrumentation of a FreeBSD kernel driver to implement QoS in network attached storage devices of a parallel, distributed filesystem.

Technologies and Skills

Python

Most recent technological work has been in Python. Author of devtools and small build components, e.g. [packrat](#).

Java

Experienced with Java for distributed applications and Map Reduce programs. I've also used Scala but am less familiar with it.

Hadoop Stack

I've used a variety of technologies in the Hadoop ecosystem: MapReduce, Yarn, HBase, Hive, Scalding, etc. This space is always moving and I've had to port our ecosystem to different versions of the Cloudera Distribution of Hadoop and others, dealing with the bugs and changes along the way.

SCRUM and
hygienic coding

One of the first scrum masters at WibiData. Led Sprint Planning for platform team. Experienced in a culture of code reviews, code style guides, etc. Owned the effort on crafting our Python style guide.

Education

2006-2011

Masters Degree in Computer Science at Carnegie Mellon University (Pittsburgh, PA)

Advisor: Garth Gibson.

- Conducted research in CMU's Parallel Data Lab group under the programs of the [Petascale Data Storage Institute](#) and the [Institute For Reliable High Performance Information Technology](#).
- Benchmarked Flash-based SSDs and evaluated cost efficiency of different hybrid configurations. Papers: <http://www.pdl.cmu.edu/PDL-FTP/PDSI/simsa-pdsw08.pdf> and <http://www.pdl.cmu.edu/PDL-FTP/PDSI/Polte.pdf>. Included work inside the Linux kernel.
- Collaborated with Los Alamos National Laboratory in the design and implementation of

the [Parallel Log-structured File System](http://institutes.lanl.gov/plfs/plfs.pdf). Papers: <http://institutes.lanl.gov/plfs/plfs.pdf> and <http://www.pdsi-scidac.org/events/PDSW09/resources/pdsw09-final9.pdf>

- Investigated the design of parallel filesystems for HPC built on top of BigTable-like software. Paper: <http://www.cs.cmu.edu/~svp/2009hotcloud-tablefs.pdf>

1999-2005

Bachelor of Arts and Master of Engineering in Computer Science at Cornell University(Ithaca, NY)

Emphasis on courses in Distributed Systems, Networks, and Theory.

- Independent Research with Prof. Emin Gun Sirer - (2001- 2002) Researched and developed an anonymizing peer-to-peer overlay network based on dining cryptographer nets called 'Herbivore'. White paper available: <http://www.cs.cornell.edu/People/egs/herbivore>
- Cornell University Neurobiology Department - (2005) Software engineer for audio experimentation and education cross platform workbench program called "Koé", providing functionality similar to professional synthesis applications, such as Reaktor.

Hobbies and Other Activities

- [Hiking](#)
- [Vegetarian Cooking](#)
- Losing at [Dota](#)
- Taking care of my pet [rabbit](#)