Amit Khivesara

Khivi

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Summary

Technical leader with nearly 20 years of experience working in startups at various stages. Build and lead passionate teams. Develop iterative processes to build high quality software solutions.

Philosophy

Embrace Change	Change is inevitable	Be Lazy	Do more with less
Open Intent	Share before, not after	Roughly Right	Perfection is a myth
Be Inquisitive	Listen, Learn, Contribute	Feedback	Help product improve
Outsource	Make oneself redundant	Measure Failure	Success travels easily

Computer skills

Recent	Scala, Bash, Ansible	Past	C/C++, Java, Kernel
Dabble	Javascript, CSS	Tools	Git, Continuous Integration
Passable	Perl, Python, Ruby	Platforms	Linux, Unix
Concepts	Storage systems, Concurrency	Avoid	Microsoft

Management skills

Employee	Encourage growth	Productivity	Extreme development
Mentor	Individuals	Process	Continous Learning
Manage	Distributed teams	Hands-on	Programming

Experience

2014–2016 **Head of Engineering**, *Betterpath*, New York City, NY.
Betterpath is a data driven healthcare startup focused on improving care for patients.

Technologies: *Linux, Scala, Bash, Datomic, Ansible*

- Built Play! server and document processing microservices using *Scala*
- Managed the engineering team to develop solutions for patients using *Scala*
- Responsible for *REST* server and web client
- Implemented authentication framework to manage different access roles
- Setup outsourced QA team in Ukraine
- Worked closely with product management to define features
- Designed and built infrastructure for deployment using *Ansible*

2012–2013 **Senior Software Engineer**, *Konnect2 Inc*, Madison, New Jersey.

Konnect2 is a financial services firm specializing in providing structured data exchange and algorithms for the global bond market. As one of the company's first employees, I took the product from an idea to deployment.

Technologies: *Linux, Scala, Play!, Postgres, Ansible*

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- Built feed handlers for *TRACE*, Bond Runs in *Scala*
- Scaled infrastructure using *Scala* actors allowed to easily scale as we added more data streams
- Built server orchestration scripts using *Ansible*

2008–2012 **Technical Lead**, *Mesh Capital LLC*, Jersey City,NJ.

Mesh Capital is a quantitative trading firm specializing in fully automated trading strategies. As the company's first employee I wrote software that traded propreity capital in the US and Canadian equities markets.

Technologies: *Linux, Java, Ruby*

- Doubled out daily trading volume by adapting strategy for dark pools
- Solely responsible for Canada cash equities development and deployment. Implemented low latency market data handlers for Canadian TL2,CL2 and CDF multicast feeds (*STAMP*). Adapted *FIX* engine for Canada markets
- Implemented a non-blocking real-time event queue in *Java* that was used in the primary trading thread. Adapted implementation to replace various queues in the system
- Responsible for back office scripts for reconciliation of executions, commissions and cash flow with brokers. Implemented in *Ruby* and *Java*

2005–2008 **Technical Lead**, *Roundbox Inc*, Florham Park, NJ.

Roundbox developed infrastructure to support mobile broadcast environments. I lead the distributed engineering team responsible for our server offerings

Technologies: *Linux, C++, ACE, Perl*

- Lead a distributed team to build the first server to support multiple broadcast standards for TV service guides. The server was *C++* and *Java*
- Built data collectors which were able to adapt *XML* data from different data vendors for TV service guides
- Participated in inter-op events with mobile device vendors to certify evolving service guide standards
- Developed processes for engineering team including coding style, bug tracking, version control and testing

2002–2005 **Senior Software Engineering**, *Xebeo Communications*, Iselin, NJ.

Xebeo was a successful company that build a high-speed carrier-grade MPLS router. UTStarcom bought Xebeo in May, 2003. I was part of the software team and contributed to the platform and protocol systems

Technologies:	*FreeBSD, C, Python, Bash*

- Built the configuration and system data-store in *C*
- Responsible for all storage subsystems
- Built custom allocators to reduce memory footprint
- Worked on the test automation framework implemented in *Bash*, *Expect* and *Python*

1996–2002	**Member of Technical Staff**, *Bell Labs, Lucent Technologies*, Murray Hill, NJ.

DataBlitz is a high-performance,*ACID*, main-memory database system. I took this project from a research prototype to worldwide deployment by Lucent within its flagship telecommunication products

Technologies:	*Solaris, C++, Tcl, Ksh*

- Built high-performance index structures (hash and tree indexes)
- Built highly optimized multi-threaded mutexes and locks
- Ported customers legacy switch API to *DataBlitz*
- Led the team and released upgrade to product during a difficult transition
- Built and maintained automated testing infrastructure using *Tcl*

Education

1994–1996	**MTech**, *Indian Institute of Technology*, Bombay, India.
	Masters in Computer Science and Engineering
1990–1994	**BTech**, *Indian Institute of Technology*, Bombay, India.
	Bachelors in Computer Science and Engineering

Awards and Achievements

1999	**Awarded**, *Bell Labs*, Murray Hill, NJ.
	Bell Labs President's Silver Award
1994	**Academic Distinction**, *GATE, 1994*.
	All India Rank 9
1990	**Academic Distinction**, *IIT JEE, 1990*.
	All India Rank 28

Interests

Privacy	Technology and Society	Music	The Doors
Travel	Small town America	Drink	Vodka
Film	Documentaries	Food	Korean