

# 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	Continuous Learning
Manage	Distributed teams	Hands-on	Programming

## Experience

2014–present **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*

- 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
- Cultivated outsourced QA team in Ukraine
- Worked closely with product management to define features
- Interacting with business units to understand needs and providing technical solutions
- Designed and built infrastructure for deployment using *Ansible*
- Responsible for production systems

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*

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

- 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 deployment scripts for *Amazon EC2* using *Jenkins*
- 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 proprietary 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**, *Xebee Communications*, Iselin, NJ.

Xebee was a successful company that build a high-speed carrier-grade MPLS router. UTStarcom bought Xebee 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*

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## 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

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## 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

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## Interests

Privacy Technology and Society

Travel Small town America

Film Documentaries

Music The Doors

Drink Vodka

Food Korean