

# Michał Szymaniak

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Fast-paced engineer with significant practical experience in developing large-scale distributed systems.

## Work Experience:

- **Principal Engineer**, Facebook, Menlo Park, CA, September 2017 – till date
  - Project: fbpkg - overhaul of fleet-wide package distribution (C++ and Python).
  - Took over a critical system facing scalability limits; devised a multi-stage upgrade plan; built and trained the team; coordinated the work with key customers and dependencies.
  - Drove the delivery of new architecture; implemented the serving framework, consistent caching, and transactional storage; migrated 350,000+ RPS within 3 months after launch.
- **Senior Staff Engineer · Tech Lead**, Facebook, August 2016 – September 2017
  - Project: Configurator Proxy2 - overhaul of fleet-wide configuration daemon (all in C++).
  - Drove the overall system design, including integration with FUSE, RocksDB, Zookeeper, Linux containers, and legacy APIs; implemented the skeleton and several key modules.
  - Launched ahead of schedule; coordinated migration of several customers; deployed to critical path on 300,000+ servers within 9 months of starting the project.
- **Staff Engineer**, Dropbox, San Francisco, CA, July 2014 – July 2016
  - Project: Magic Pocket - massive block storage behind the entire business (Go and Python).
  - Invited to audit the system before dark launch; introduced a test-driven release process; coordinated a team-wide effort to achieve end-to-end test coverage.
  - Designed and implemented multi-datacenter content placement, location-aware request routing and cross-datacenter failovers; launched new data stores in the US and Europe.
- **Senior Staff Engineer · Team Lead**, Google, Mountain View, CA, May 2010 – June 2014
  - Project: Spanner - globally-distributed database platform (all in C++).
  - Developed database bootstrapping, scaling, and deletion; datacenter assimilation and turndown; dynamic data placement, resource usage quotas, and mountable backups.
  - Led a team of 3 engineers who delivered a service for automated backup and restore; mounting resilient to datacenter outages; and low-overhead large-scale data moves.
  - Mentored the project staff and internal customers, interfaced with legal (patents).
- **Software Engineer · Tech Lead · Project Manager**, Google, April 2007 – May 2010
  - Project: Zwieback - overhaul of user identification (mostly C++, some Java and Python).
  - Redesigned and implemented the new Google-wide user tracking system.
  - Coordinated integration with most products, including search and ads.

## Education:

- **Ph.D. in Computer Science** (2007) from Vrije Universiteit Amsterdam, The Netherlands
- **M.Sc. in Computer Science** (2002) from Warsaw University, Poland