

Bartłomiej Ogryczak

Senior Back-end Engineer

🌐 Concord, California

☎ (415) 769-7504

✉ b.ogryczak@gmail.com

📁 [linkedin.com/in/bogryczak/](https://www.linkedin.com/in/bogryczak/)

Professional Experience

Senior Software Engineer II at *Eventbrite*, San Francisco, CA

Oct 2014 — Apr 2020

Key member of **Backend Foundry squad / Infrastructure team**, responsible for spearheading adoption and implementation of architectural solutions enabling Eventbrite to operate at scale, while helping engineers move faster.

Most significant projects:

- Driven deprecation of hard-coded checks in favor of robust, fully dynamic permissions' system. Worked closely with consumer, internal audit, and security teams to enable company-wide adoption. Developed tools and best practices enabling engineers. **Key results:** enabled consumer teams to serve complex, high value customers.
- Requirements gathering, design and implementation of Cerberus, Eventbrite's new generation Authentication, Authorization and Identification service driving the new permissions system. Coordinated with SRE and BDRE on SLA/SLO budgets & monitoring for this mission critical system. **Key results:** receiving most traffic, Cerberus is the most stable and reliable of Eventbrite's services.
- Design, implementation and enabling adoption of PySOA, in-house SOA bus, which enabled migration of monolith into service oriented architecture. **Key results:** remote service call latency reduced from 20-30ms to 1-2ms, while also enabling multiplexing. About 70% of the monolith code migrated into microservices.
- Developed Dilithium, in-house event-sourcing based on parsing MySQL binlog, using rules to generate high-level events from row level changes. Productionized prototype, making it resilient and scalable. **Key results:** enabled teams to use with ease, making service robust enough to withstand on-sales generating in excess of 5,000 updates a second, absorbing the peaks into Kafka, thus not overwhelming consumers.
- In Architecture Guild, authored architectural proposals and engineering best practices, driving their approval and adoption throughout the organization

Back-end Developer at *Layar*, Amsterdam, The Netherlands

Feb 2011 — Sep 2014

Responsible for Layar's AWS back-ends for mobile Augmented Reality app and web based Layar Creator:

- Designed and implemented vertically and horizontally scalable architecture for visual search. I have used an asynchronous server (Tornado) to scale-out otherwise single-process Visual Search Engine.
- Decoupled services using SQS and Twisted.

Core Developer at *Hyves, Amsterdam, The Netherlands*

Jul 2009 — Feb 2011

Served as back-end engineer Media Storage Team at the Netherlands' then largest social network (10M MAU). In charge of 2 billion image/video files with 300K daily new uploads using in-house solutions on top of commodity hardware. Designed and implemented an algorithm which guaranteed files would be replicated on machines not in physical proximity. **Key results:** new algorithm not only guaranteed more resilience, but also improved load distribution, significantly reducing latency while serving hot files.

Software Analyst at *Red Trabajar, Madrid, Spain* Feb 2008 — Jul 2009

Complete rewrite of Spain's then biggest job portal. Rebuilt from the ground up using Zend Framework and Oracle DB, while seamlessly migrating from legacy website. Designed and implemented a high throughput mailing system capable of generating and sending 15M individually customized emails nightly.

Software Analyst at *Santander Bank, Madrid, Spain* Jul 2006 — Feb 2008

Integrating and processing data from multiple real-time sources for real time analysis and risk management at Santander's investment banking division.

Key results: Developed better job distribution/aggregation algorithm used on blade servers, which significantly reduced latency for small jobs, while at same time reduced total run time 12-fold for big portfolios.

Web developer / Sysadmin at *Melog.com, Warsaw, Poland* 1997 — 2005

Linux Sysadmin / generalist. As company grew specialized in back-end, working mainly on Oferty.net, a meta-search aggregating data from dozens of real-estate agencies.

Education

MS in Computer Science at *University of Warsaw, Warsaw, Poland*

1995 — 2001

Master's specialization in **Distributed Systems**.

Thesis project: USOSweb, student and professor facing component of USOS (comprehensive university course management system). After graduation aided further development as an external consultant. USOS is highly successful, it is actively used by over 50 universities, and has won multiple awards.

Skills

- Scalability, microservices, Python, Django, AWS, SQL, Kafka, Redis, and more.
- Self-starter, easily adapting to new challenges.
- Languages spoken: **English** (fluent), **Spanish** (fluent), **Polish** (native)