

Andrei Chirilă

Software Engineer with focus on systems understanding, automation and reliability. Experienced in working with teams, product delivery, mentoring, coaching and hiring.

Zürich, Switzerland

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Skills

Engineering • C / C++ • Amazon Web Services (AWS) • Static code analysis • Problem Solving • Go (Programming Language) • Cross-team Collaboration • Distributed Systems • Systems Design

Experience

Google / Staff Site Reliability Engineer

NOV 2019 - PRESENT, ZÜRICH, SWITZERLAND

Ramped up as SRE, initially as individual contributor and, over time, as tech lead (as the previous tech lead broadened his own scope) on the internal monitoring team (Horizontal Monitoring Data) - the team focused on making observability at scale something that just works.

Designed and developed automation that reduced user request processing from days/weeks to 30 minutes/one week, deterministically and with very high confidence in the quality of the data, burning through the team's backlog of requests, previously processed by hand. I helped grow the team, extended the automation in adjacent areas as well (resource forecasting and resource provisioning), while also participating in incident response management (part of the oncall rotation, 5 minutes hands-on keyboard response time).

I switched teams to Borg SRE, working on the core systems that power Google's data centers, part of the oncall rotation, 30 minutes hands-on keyboard response time. My main responsibilities include understanding and delivering horizontal projects across the entire system, including hands on coding for covering gaps in delivery. One such horizontal project was [bringing Borg to external customers](#).

Google / Staff Software Engineer, Tools and Infrastructure

JAN 2013 - OCT 2018, ZÜRICH, SWITZERLAND

I worked on understanding various systems within Google Shopping (CDS, Data Quality, Image System), contributing on testing, release streamlining & automation of the various projects, cleanups and productivity enhancements (e.g. benchmark framework, side by side comparison for release and local testing, debugging libraries and instrumentation, tool development and evaluation for vendors). My bigger team had an up and running prototype for code coverage (with some results presented at GTAC 2014).

I became a core member and later the tech lead of the code coverage project, which became in this time a Google wide solution, well integrated in the development workflow and getting visibility. I was leading a team of 4 to process hundreds of changes per day and producing coverage results (for both incremental changes and project wide assessments).

I initiated, proved and led a team which developed an automated solution for identifying and deleting dead code within Google (XXXM+ lines deleted), called Sensenmann and [now public on Google Testing Blog](#). This work also enabled my team

to provide the first open API for creating and submitting automated code changes, targeting developers of automation and had a number of internal teams using that to promote best practices and cleaner code through Google.

Skoobe / Software Engineer

JUN 2010 - DEC 2012, MÜNCHEN, GERMANY

First software engineer at Skoobe. Covered all parts of the development stack, from the core library (cross-platform C) used for both Android and iPhone versions of the Skoobe app, through website, small API services, payment system and deployment management and automation (on premises & on AWS, fully automated with Jenkins). Participated in interviewing candidates, helped grow the team (to ~7 by the time I left) and handed over parts of the system as people ramped up.

Other companies / Software Engineer

JUN 2008 - JUL 2010, BERLIN, HAMBURG, GERMANY; IASI, ROMANIA

Details available on request.

Education

International Coaching Federation / Associate Certified Coach

ISSUED May 2024 - EXPIRES MAY 2027

International Coach Academy / Coach Certification

2022 - 2023

University "Alexandru Ioan Cuza" / Bachelor's Degree, Computer Science

2006 - 2009, IASI, ROMANIA

Languages

Romanian (native); English (fluent); German (proficient)