Milan Cermak

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SUMMARY

A well-rounded software engineer with over 12 years of professional experience. Built various applications and systems ranging from fast, distributed ETL pipelines, RESTful APIs to award-winning iOS apps. Independent, thoughtful, and detail-oriented contributor who understands when to make a trade-off. Enjoys leading a team and mentoring more junior team members. Has a good awareness of what it takes to design, develop, deploy, and operate a software product within a business context.

CAREER

Senior data engineer, kencko   Oct 2020 - present

Modernised and completely transformed the way how the company deals with data, from ingestion to presentation. Replaced an old, slow ETL process with a new ELT one. Introduced dbt, automated testing & deployment using a CI process, Looker and taught the team how to use it. Built a new data-warehousing model that's faster and easier to work with. Implemented a lot of other small improvements in various other systems. My contribution resulted in massive speed-ups in data processing all the while reducing the infrastructure bill and freeing up tech team members to do high impact tasks.

Technologies: SQL, dbt, GCP (BigQuery, Dataflow, GCS, …), Python, Fivetran

Senior data engineer, 8fit   Jan 2017 - Jul 2018

Successfully designed, built and operated a distributed data processing system from scratch. The focus was on speed of execution, speed of integration and reliability. It integrated over 15 diverse data sources. Besides data storage, the system had close to zero operating costs. It allowed the growth team to precisely monitor their campaigns and allocate millions of dollars monthly on performance marketing, the product team to accurately evaluate user behaviour and the finance team to close the book not later than the fifth day of the month.

Spearheaded transition of the data warehouse to an industry standard dimensional (Kimball) model. It allowed for faster data processing and unlocked fine grained data reporting options.

Built a web app to centrally track A/B tests. The aim was to give the product and marketing teams a self-service platform to run and evaluate experiments independently.

Technologies: Python, Javascript, AWS (Lambda, Fargate, Redshift, S3, IAM, Step Functions, Athena, …), Ruby, SQL, Linux, Bash

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Senior iOS engineer, 8fit   Nov 2015 - Dec 2016

Part of a team that developed a hybrid iOS app ranked #1 in the Health & Fitness category in the App Store multiple times. Implemented wide ranging set of features, both user-facing (e.g. new native onboarding, native workout module, design update) and internal (e.g. caching, auth).

Initiated multiple industry best practices (unit testing, continuous integration, automation of mundane, error-prone tasks) that improved the team's performance and comfort.

Worked on smaller backend / API (Ruby on Rails) features helping to improve the app.

Technologies: iOS (Swift, ObjC), Coffeescript, Javascript, Ruby on Rails, SQL, Bash

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Lead iOS engineer, Door2Door   Mar 2014 - Oct 2015

Led a team of two other iOS engineers and oversaw the whole redesign and development process from Waymate to Allryder app. Built the ally app, ranked by Apple as Top 20 in Germany in 2015. As an Apple Launch partner, participated in bringing the ally app to the first generation of the Apple Watch. Implemented other pre-release, showcase features. Took part in designing the HTTP API.

Technologies: iOS (Swift, ObjC), Ruby, GIS, Python

Lead iOS engineer, Sociomantic Labs   Jun 2013 - Mar 2014

Created the very first mobile app for the company. Educated the R&D team on mobile specific requirements and best practices. Mentored a junior iOS engineer and

coordinated with the Android engineer to have consistent apps across the company. Designed and built an ObjC library that could be integrated to the apps of Sociomantic's clients with a single line of code, unlocking a future revenue source.

Technologies: iOS (ObjC), Bash

Full stack software engineer, Wildfuse   Jan 2011 - May 2013

Designed and implemented backends and frontends (iOS, web) for various startups (e.g. LocalHero, alert.us). Gathered requirements directly from clients, coordinated efforts between development teams, guided designers on mobile specific requirements, provided technology consultations.

Technologies: iOS (ObjC), Python, Javascript, AWS (EC2, S3, DynamoDB, IAM, …), PostgreSQL, Redis, HTTP

Software engineer, Seznam.cz   May 2010 - Dec 2010

Worked on internal tools for the fulltext search team. Implemented various features for a new version of the web crawler.

Technologies: Java, Python, Hadoop

Software engineer, Virklis, s.r.o.   Apr 2009 - Dec 2009

Implemented various backend and frontend features for a new ERP systems for managing small to medium sized farms.

Technologies: Python, PHP, Javascript, SQL