Tomislav Maričević

tomislav@tmarice.dev | Zagreb, HR | tmarice.dev | ⬤ tmarice | 🐦 tmrcv | in Tomislav Maričević

Summary

Experienced product engineer. Strong background in Python, Django, and relational databases. Proven track record of delivering complex projects on time and within budget, with a focus on quality and performance. Passionate about mentoring and improving engineering processes.

Skills

- **Python**, **Django**, **Celery**, **SQL**, Linux, Git, Datadog, Github Actions, MLOps, PostgreSQL, AWS, Docker, JavaScript

Work Experience

VuMedi   **Zagreb, Croatia**
Technical Lead   Apr 2023 — Present

- **Created an ad product bringing in $10M in the first year**
  - Navigating complex product and legal requirements
  - Full technical ownership: backend and frontend code, targeting algorithm, monitoring and alerting, full test coverage with Selenium tests, managing an external frontend developer
  - Created product documentation and provided support for ops teams during the initial rollout
- **Led the internal technical improvements process for 4 years for the entire engineering team**
  - Introducing ADRs, regular Django upgrades, linting and other automated code quality checks, writing internal documentation
  - Led the effort to improve the deployment procedure: created documentation, moderated team discussion, shaped the solution, oversaw the implementation, resulting in improved reliability, greatly reduced deployment time and deployment-related incidents
- Created automatic video tagging system using LLM agents, using video transcripts and existing video library metadata
- Supported 4 engineers as a tech lead, where they rolled out large user- and customer-facing products: in-video polls, automatic video chapterization, modernization of the internal CRM data model

Senior Software Engineer   **Zagreb, Croatia**
                                                                                                            Sep 2020 — Apr 2023

- **Created video ingestion system in collaboration with content teams**
  - Reduced the time from content acquisition to general video availability from days to hours
- Created an internal CRM for product and video inventory tracking, reducing errors in delivering signed programs to customers
- Created video transcription pipeline using AWS Transcribe Medical, and later 3 Play Media, unlocking new features based on understanding of video content
- Performed general infrastructure improvements
  - Adding system health checks
  - Log archiving and ingestion to Datadog
  - Migrating large Postgres tables to bigint primary key
  - Set up data retention policy for large partitioned tables with offloading to AWS S3

Independent Contractor   **Zagreb, Croatia**
Software Engineer   Dec 2017 — Sep 2020

- **Optimization and improvements of email sending system**
  - Performance improvement replacing the legacy precalculation system with a real-time solution, increasing mailer reach
  - Created personalized mailing system with a recommender algorithm, email sending infrastructure, tracking and analytics system
- Created an OCR system for extracting slideshows from videos, enabling easier manual classification of video content
- Improvements of the email system - subscription, webhooks, and delivery event management

Reversing Labs   **Zagreb, Croatia**
Software Engineer   Oct 2015 — Jun 2017

- Designing and developing customer-facing REST APIs using Python, Flask, and Docker
- Key role in designing and implementing YARA pattern matching subsystem , processing millions of files daily with user submitted rules

Education

Faculty of Electrical Engineering and Computing, University of Zagreb   Oct 2013 — Jun 2015
Master of Science in Computer Science

- Organized and taught: Basic Linux Use, and Advanced Linux Use
- Elective courses: Programming in Haskell
- Led the computing section of the student club, organizing events and workshops

Faculty of Electrical Engineering and Computing, University of Zagreb   Oct 2010 — Jun 2013
Bachelor of Science in Computer Science

- Student TA on: Algorthms and Data Structures, and Programming and Program Engineering
- Elective courses: Competitive Programming