Paschalis Tsilias

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Personal

Determined SWE and Physics MSc, with strong analytical skills, a robust technical background, and hands-on experience on large software projects. Looking forward to setting new challenges, cooperating in a team setting and engineering effective solutions to solve real-world problems. Vim person.

I blog on tpaschalis.github.io where you can also view my FOSS contributions to projects such as the Go language.

Education

MSc Computational Physics, AUTh 2018 - On hold
Algorithms, Data Analysis, Advanced Statistics, Numerical Methods, HPC

BSc Physics, AUTh 2011 - 2017
Software Simulations, Development of a Data Acquisition and Analysis system

Employment

Grafana Labs, Software Engineer Jan 2022 - Present

Beat, Backend Engineer Nov 2019 - Jan 2022
Building the Growth Tools that establish Beat as the fastest growing ride-hailing app in Latin America.
Agile Development of scalable and highly available solutions using cloud-native patterns and a microservices-based architecture.
Core maintainer of Patron, the FOSS framework behind all of our Go uservices.
AWS, Go, K8S, PHP, *nix, Kafka, SQL, MongoDB, Loki, Grafana

Sigmia/Oracle, Software Engineer Mar 2018 - Oct 2019
Back end development and maintenance of complex decision support systems for multinational corporations.
I made sure our systems were robust, documented, testable and followed the principle of least astonishment.

Research Internship, KAIST, South Korea Q3 2016
C++ code, Monte Carlo simulations, Pattern Recognition

The Web Navarinou, Systems Engineer Role 2014 - 2016
Developed automation and monitoring applications, as well as data parsing tools. Responsible for the Server and Network infrastructure reliability, as well as the life-cycle and deployment of corporate software.

Skills and Projects

Distributed Systems	Go	Kubernetes	Git
Python (numpy/pd/pyplot)	Concurrency	AWS	Linux
Vim	SQL (SQLite/Postgres)	OLAP	Networking
Data Analysis	Advanced Statistics	Data Visualization	LaTeX

Most of my side-projects are available on GitHub

`http://sunlight.live` is a real-time visual map of sunlight on earth using Python.

`http://geohash.world` is an API to encode and decode coordinates using the Geohash geocode system.

`http://tweetstream.space` allows indexing tweets in specific timeframes.

`daffodil` is a Snowflake-like distributed ID generator.

Developed a rudimentary ray tracer, a ray marcher and am currently building a renderer in Go.