



Marcell Dávid Fülöp

PROFILE

As an intelligent and enthusiastic graduate with over fifteen years of experience in different roles of IT systems design and development, I bring keen analytical and excellent communicational skills to any software development team.

Thank to my early exposure to computer programming as a child, the hobby soon became a profession and a passion. After fifteen years in the industry as a professional and twenty-seven years after I completed the first website I got paid for, I can still get literally excited when I try things I've never done before in programming. This ability feeds my enthusiasm and leads to an ever increasing interest in learning and working with new and developing technologies.

KEY SKILLS

Software engineering

Object-Oriented design Experience in Java, PHP, JavaScript, TypeScript, C++, Go, Rust; SOLID principles and OO design patterns, Inheritance vs Composition based design principles.

Web application development PHP, Symfony and Zend frameworks, Composer, PHP Extension development; JavaScript & TypeScript Node.js, Express.js, Next.js, Vue.js, React

Backend development Python, Django, FastAPI, Rust, Tokio, Rocket, Java, C++, C

Functional programming Some experience with functional JavaScript and Haskell

Templating engines Handlebars, Jade, Mustache

Design methodologies I have been involved in projects characterised by Test Driven Design, Behaviour Driven Design, Domain Driven Design

Markup Languages HTML, CSS, XML, GraphQL

Scripting Languages Linux shell scripting, Groovy

Database design

UML & C.A.S.E. Skills in graphical modelling; *IDEs* IntelliJ IDEA, Eclipse; *VCSs* Git, SVN, Mercurial; *Issue tracking / collaboration* GitHub, Bitbucket JIRA, Confluence

RDBMs Strong practical experience in designing, building and maintaining normalised relational SQL database systems: MySQL, Postgres, Oracle

NoSQL/Memory based key-value storage Experience with MongoDB, DynamoDB, Elasticsearch, Redis, Kafka, Memcache

Cloud | SysOps | DevOps | CI/CD

Strong practical experience with AWS web console and CLI (IAM and Policies, EC2, ELB/ALB, AutoScaling, RDS/Aurora/DynamoDB, DMS, S3, CloudFront, VPC, ACM, Route53, SQS, Fargate, EKS, etc.)

CI/CD, container orchestration, automation Docker, Docker Swarm, Jenkins, GitHub Actions, Kubernetes, Helm, AWS CodeDeploy/CodePipeline/Lambda/EKS; ArgoCD, Terraform, HashiCorp

WORK EXPERIENCE

Python developer / Apr 2021 – August 2022 / back-end / dev-ops / front-end

Extracover Ltd (Zego.com) – London

I joined this absolutely fantastic, vibrant company as a Python developer and learned so much more than I expected. I helped adding features and fixing bugs in the company's exceptionally complex, legacy core system, a website offering specialised car insurance in some market segments. The work involved deeply getting to know the Django framework, Google's Protocol Buffers and GraphQL in the first six months.

Then I was invited to take part in the exciting and challenging task of rewriting parts of the legacy system into multiple, modular component-services, a mega project the company had been preparing for a few month by then. This was based on an ingenious, truly micro-service oriented design whereby each component-service comprises of its own micro-backend, micro-frontend and orchestrator service triplets. Leveraging the potential of such an architecture, we built a system that could dynamically provide user journeys with rather complex constraints all by the means of some JSON configuration files.

Python / Django / FastAPI / gRPC / PostgreSQL / TypeScript / JavaScript / GraphQL / Next.js / AWS / BuildKite / ArgoCD / Docker / Kubernetes / Helm

DevOps engineer / November 2019 – August 2020 / dev-ops

Loxon Solutions - Budapest

As the DevOps engineer to this FinTech company's innovation division, I provided day to day support for developers and development processes as well as troubleshooting and managing the growth and requirement changes of the in-house cloud infrastructure where the company's new generation Debt Collection system, a fully Dockerized, micro-services architecture Java Spring Boot Application is housed.

Docker / Docker Swarm / Elasticsearch / LogStash / Kibana / Zabbix / REST / Jenkins pipelines / Apache Kafka / Debezium / Micro-services / Apache Maven / Java / Spring Boot / Bash/sh / Groovy / Ruby / OpenFaaS

Lead developer / March 2016 – March 2019 / back-end, front-end, dev-ops

Cohort Global UK Ltd, Cohort Global Australia Pty Ltd - London, Sydney

Leading software development and managing product life-cycle for the company's affiliate management platform. Liaising requirements with management, marketing and sales teams, supervising fortnightly sprints, daily workflows and code quality, executing code reviews, working with QA team, building and running stress tests.

PHP5 / MySQL / REST APIs / PHP Pear DB, DataObjects, Mail / JavaScript / jQuery / AWS EC2, ELB/ALB, Lambda, Route53, VPC, DBMS, Aurora, CloudFront, CodeDeploy / Apache Ant, JMeter / Jenkins / Terraform / Chef / Linux CRON / Bash/sh scripting

Senior web developer / January 2015 – February 2016 / back-end, dev-ops

Virgo Systems Ltd - Budapest

Design and development contribution to a crowd finance real estate marketplace platform deployed in the cloud for a market leader agency.

Micro-services / NodeJS / Mongo DB / REST APIs / PostgreSQL / AWS EC2, RDS / Bamboo pipeline.

Senior web developer / January 2012 – November 2014 / back-end, dev-ops

Net Mobile UK Ltd - London

Working with high profile clients such as Playboy and Fujitsu I was responsible for designing, building and maintaining the server back-end for iOS and Android mobile applications.

REST APIs / PHP / MySQL / Symfony / Doctrine / AWS EC2, RDS, CloudFront

Web developer / August 2009 – January 2012 / full-stack

MarkcoMedia Ltd - London

Working on MyVoucherCodes.co.uk, the market leader voucher, coupon code and discount deals website in the UK, a large-scale, high traffic, fast growing PHP5 MVC engine. Carrying out optimisation in PHP and SQL; delivering new modules and subsystems.

PHP / Zend / MySQL / JavaScript / jQuery / SVN

Web developer / June 2008 – July 2009 / full-stack

thruSITES Ltd - London

Completed two medium sized LAMP applications from design to implementation

PHP5 / JavaScript / MySQL / AJAX / jQuery / YUI / Prototype

EDUCATION

2005 – 2008

University of Bedfordshire

Bsc Hons – Computer Science & Software Engineering (2:1, Java, .NET, Oracle)

1991 – 1996

Polytechnic of Economics

GCSE - Mathematics, Informatics, Economics, History, Hungarian and English Language

Languages: fluent spoken and written English, native Hungarian, interested in French, Arabic

INTERESTS

I would like to work more with Rust, Go, C++ and embedded C, learn Mojo, try WASM.

I love Backgammon.

Besides spending most of my free time on some sort of software or IT project, I love nature, forests & rivers, hiking & biking around where I live, or exploring other cultures while travelling to exotic places.

As a "hobby scientist" I am also quite enthusiast about the advances in computer science and all of the natural sciences.

CONTACT & SOCIAL

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