Michal Parusinski

Software engineer

contact

michal@parusinski.me
michal.parusinski.me

langues

french C2
english C2
polish C1
german B1

programming

C / C++	expert
Java	advanced
Python	expert
Haskell	advanced
Javascript	advanced
PHP	intermediate

software engineering

IT Security
Unix/Linux systems
Agile methods
Object oriented programming
Functional programming
Distributed computing
Databases
Cloud infrastructure
Containers (Docker)
Version control

education

2007–2012 **master** Msci. Mathematics & Computer Science — Imperial College London
with First Class honours

experience

full time

2018–2021 **SERTIT - ICube** — Illkirch-Graffenstaden, France
Research engineer

Automating mapping and object détection in satellite imagery project using image processing and deep learning algorithms written in Python and Tensorflow as well as research and development in GANs.

Set up of continuous integration and automated testing (using Docker and Gitlab). Participating in rapid mapping activities. Maintenance and improvements on web site.

Supervision of a web mapping internship project

2015–2017 **Amadeus** — Sophia-Antipolis, France
Software engineer and technical leader

I worked on reservations systems for Car Rental, Insurance and Cruise; both on "backend" and "frontend" side.

Also worked on reengineering of the reservation system operating on IBM mainframe to a distributed modern architecture running on Linux servers (TPF Deco).

2013–2015 **IBM** — Hursley, United Kingdomi
Ingénieur logiciel

QA tester for SPSS Modeler and SPSS Entity Analytics: Test creation and maintenance of multiple test systems (Unix and Windows).

Software engineer for SPSS Modeler: Development of functionality such as support for the PowerPC architecture and integration of the software with the IBM Bluemix cloud platform.

1st "Giveback" project: Provided consulting services for the University of Winchester on the establishment of a Business Analytics course.

2nd "Giveback" project: Development of a web platform built in PHP, JavaScript and Dojo.

2012–2013 **Université Catholique de Louvain** — Louvain-la-Neuve, Belgium
Research Assistant

Project on Physically Unclonable Functions: I have used the *logistic regression* to attack a PUF built on power consumption.

internships

Summer 2011 **Siemens** Princeton, United Stattes
Summer Intern

Contribution to a medical imaging platform built for heart simulations and heart surgery assistance. Coding was done in C++, OpenGL and OpenMP.

2011–2012 **Imperial College London** Londres, United Kingdom
Undergraduate Teaching Assitant

Participation to the teaching of 1st year formal logic lecture at Imperial College.

Summer 2010 **Imperial College London** Londres, United Kingdom
Research Intern (UROP)

Contribution to a ocean simulation platform within the AMCG (Applied Modeling & Computation Group) research group: Worked on data model adaptation for finite element method.

Summer 2009 **Personal Audio Ltd.** Sydney, Australia
Software engineer

Worked in a start-up focused on game experience enhancement. Created an interface in QT.

awards

2008 & 2011 **Gloucester Research Prize** Imperial College London
Distinction for academic excellence

personal projects

Super resolution project : Python software, using deep learning, to create hidpi versions of lowdpi icons.

Web crawler : Python software, through HTML requests, downloads content from Wikiquote and then using regular expressions transforms the data into JSON format. The sofware is unit tested.

interests

professional: machine learning, data science, computer security, servers, UNIX

personal: martial arts (taekwondo), game of go, board games

publications

scientific publication: Coauthor of the scientific publication on physically unclonable functions https://perso.uclouvain.be/fstandae/PUBLIS/134.pd

patent: Coauthor of U.S. Patent 9,582,263 on wearable technologies