# SAMUEL LOURY
## Resourceful Computer Scientist

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🚗 ✅ 🎂 June 24 1987

## EXPERIENCE

### Cosmo Tech 📍 Lyon

📅 **June 2017 – Ongoing**    **Technical Lead**
- Scaling up the Cosmo Tech complex system solution to work on Google Kubernetes Engine (SaaS).
- Supervise a team modeling complex plannings and a team modeling crowds.
- Wrote a framework to publish models computations.

📅 **Oct 2015 – June 2017**    **Modeling engineer**
- Worked in a model simulating the impact of investment decisions on the death of millions of aging assets with RTE.
  - Added several investment types, improved the budget model.
  - Scaled up the model on google gcloud platform.
- Modeled crowds in an airport (2D walking surfaces & queues) focusing on explaining the delays due to high crowd density.
- Modeled big plannings ($\sim$100K tasks spanning $\sim$2 month) with several constraints (sequence, resources availability, unscheduled events...), focusing on explaining the bottlenecks.

📅 **Oct 2014 – Oct 2015**    **Data modeler**
- Modeled Petrogal's energy network during the TopRef project.
- Created state of the art surrogate models using python-sklearn.

📅 **Feb 2012 – Oct 2014**    **Developer**
- Joined the company to develop the complex system agent based modeling platform (in C++).
- Worked on agents communication, scheduling & probing.
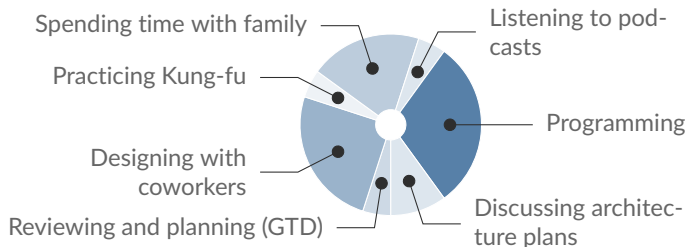- Worked on the continuous integration using cdash and build tool-chain with cmake & ctest.

### Dassault Systèmes 📍 Vélizy-Villacoublay

📅 **Sep 2010 – Dec 2011**    **Developer**
- Developed the first version of the asynchronous infrastructure of CATIA V6.

## A DAY OF MY LIFE



- Spending time with family
- Listening to podcasts
- Practicing Kung-fu
- Programming
- Designing with coworkers
- Reviewing and planning (GTD)
- Discussing architecture plans

## VALUES IMPORTANT TO ME

📖 Learning & sharing   🤝 Co-creation
☮ Tolerance   ⚖ Transparency   🧩 Rigor
🔧 Pragmatism   🔄 dog fooding   🖊 serendipity

## INTERESTS

Life hacking   Second brain (GTD, Roam)   Zettelkasten
Go game   Scientific skepticism   Cognitive psychology

## MOST PROUD OF

**Automating the boring stuff**
Automatized my work with a command line tool that shortly became the official company tool and defined the workflow

**Innovation**
Won a company innovation prize creating a virtual reality debugger of a crowd model

**Fun**
Made the work life funnier (monthly random lunch group draws, VR & laser game events...)

## EDUCATION

### MOOCs

📅 2020   FUN MOOC   Reproducible Research
📅 2017   FUN MOOC   Big Data Fundamentals
📅 2014   ideal   DEvelopmentAl Learning
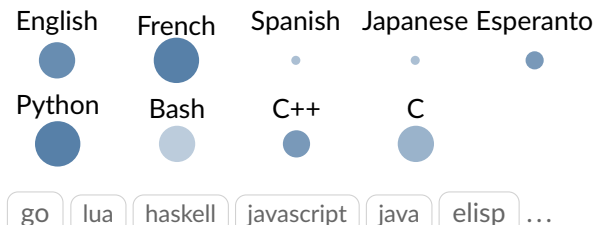📅 2014   FUN MOOC   Evolutionary Optimization

### School

📅 2015   Pec'num$^{2015}$
Space filling samplings and optimization techniques
📅 2010   Grenoble INP Ensimag
Graduated as **Engineer** in
**Applied Mathematics & Computer Science**
Specialized in **virtual reality and image processing**

## PROFESSIONAL STRENGTHS

🗇 Full stack   🄰 Resourceful   🧩 Rigorous
👁 Focused   🗇 Open minded   🤼 Team player
💡 Curious   🗇 Abstract thinker   ✅ Engaged

## LANGUAGES

English   French   Spanish   Japanese   Esperanto
Python   Bash   C++   C

go   lua   haskell   javascript   java   elisp   ...

## TOOLS & TECHNOLOGIES

Emacs   K8s   Jenkins   gcloud   Docker
Consul   Git   Nix   Haproxy   IPFS

redis   traefik   consul   gulp   node.js   ...