

# David Kremer

4, rue de Panama  
75018 Paris – France  
☎ +33 (0) 7 77 72 02 43  
✉ [courrier@david-kremer.fr](mailto:courrier@david-kremer.fr)

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## Professional background

Sep. 2017 – present **Python Developer**, Budget-Insight.



- Python: SQL Alchemy, Flask, Django
- Maintenance and Evolution of the Budgea API
- Maintenance and Creation of new scrapping connectors
- Integration of end-to-end encryption (with JWE standard)
- Migration of the job scheduler from Gearman to Celery+RabbitMQ.

Budget-Insight, a private company founded in 2012, is specialized in retail banking and financial investment data, targetting finance-related and accounting professions as well as helping individuals with day-to-day finance management.

Jun. 2017 – Aug. 2017 **Fullstack developer**, Outscale SA, Cloud Provider.



- web-services based application (SOAP, WSDL, JSON-RPC, REST)
- Agile methodology (Scrum)
- SQL Alchemy, Flask, Django, uWSGI
- Tools : Jenkins, Gitlab, Jira, Confluence, PyCharm®

Aug. 2016 – May 2017 **Developer**, Sewan, Telecom operator.



- Python2.7, MySQL (percona), JavaScript, PHP
- Tools : Jenkins, Gitlab, PyCharm
- Active support for internal users of our central provisioning software tool
- Evolution, test and maintenance of a large legacy codebase
- Conception and build of isolated testing environments

Sewan is a next-generation operator providing telecommunication services (voice, data, hosting) for corporate clients.

Sep. 2014 – May 2016 **Mathematics teacher**.

- Skill set: teaching methodology, public speech, group management
- Material taught: Physics, Chemistry, Mathematics, Information Technology

October 2010 – April 2014 **PhD in molecular physics**, MOLTECH Anjou.



- Induced polarizabilities in green-house gases
- Experimental data processing with statistical tools (NumPy, R)
  - Model regression, signal processing
  - Article redaction and research reporting
  - Literature review, state-of-the-art studies

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## Technical Skills

Algorithms Standard knowledge of data structures and algorithmic processing of such structures (queues, stacks, graphes, etc)

System Programming Good notions of multithreading, multiprocessing and scheduling

Mathematics Solid knowledge of statistics, signal processing and numerical analysis

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## Languages, Framework and Technologies

- Scripting Languages Python 2 & 3, Ruby, Matlab®, JavaScript, PHP
- Compiled Languages C/C++, golang
- Functional Languages Haskell, Scala
- Python Frameworks Django, Django Rest Framework, Flask, PyTest
- Database MySQL, SQLite, mongoDB, postgreSQL
- Operating Systems Linux (ArchLinux, Debian); Docker; Good knowledge of unix-like operating systems.
- Office software
- Spreadsheet applications
  - Knowledge in technical writing and publishing

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## Scholarship and formations

- Summer 2016 **Formation M2I**, Java/J2EE, Information Technology, Paris, La Défense.
- Familiarization with a statically typed, object oriented language
  - Familiarization with the Java ecosystem and standard library
  - Java DBMS and serialization frameworks (hibernate)
  - Program design and implementation
- 2010 – 2014 **PhD (Physics)**, *CNRS – MOLTECH-Anjou*, Angers.  
Atomic and Molecular Spectroscopy Specialization
- 2008 – 2010 **Master's degree**, *Angers University – Joseph Fourier University*.
- Data processing and measurements
  - Statistical analysis and model regression.
  - Optique des lasers, optique non-linéaire
  - Particle Physics and Standard Model

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## Other

- French mother tongue
- English fluent
- Soft-Skills
- Autonomy, good problem-solving skills
  - Very creative yet disciplined and objective-oriented
  - Multi-field knowledge (programming, mathematics, physics)

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## Leisure's Activities

- Books Computer Science Books, Novels, Theater
- Music Classical and Jazz Music
- Sport Swimming, Hiking, Football