

# Software Engineer

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## Antoine Jacquet

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## Skills

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Languages	<b>PHP, C++, C, JavaScript, SQL, Bash, Python</b>
Softwares	<b>Apache HTTP Server, MariaDB, Elasticsearch, Memcached, Docker</b>
AWS	<b>API/CLI, EC2, RDS, S3, SES, SNS, SQS, VPC, API Gateway</b>
APIs	<b>Facebook/Instagram Graph, Twitter Gnip, YouTube Data</b>
Frameworks	<b>CodeIgniter, Bootstrap, jQuery, Scikit-learn, Keras, PyTorch</b>
Speaks	<b>native French, fluent English</b>

## Work Experience

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- Since 2022 **AI Applications Developer**, Jolibrain.
- 2020–2021 **DevOps Engineer**, Publicis Media.  
Development and administration of a tracking tool for 200,000 brands on social networks.  
Data collection from Facebook, Twitter, YouTube, Instagram, LinkedIn and VKontakte.  
Amazon Web Services architecture with about 70 servers, primary/replicas databases with several terabytes of RocksDB storage.  
Full-text search on 3 billions documents, building and training of a sentiment analysis model.
- 2009–2019 **Freelancer**, RezoNux.  
Consulting, audit, technical assistance and software development.  
Facebook applications (games, contests, flirt, presents, quiz, job-search, sports betting), page tabs creation.  
Embedded Linux (kernel modifications, software porting).
- 2008–2009 **Software Engineer**, Sagem Communications.  
Software development on an embedded Linux for internet gateways.  
OpenWrt environment on a MIPS architecture, GCC toolchain with cross-compilation.  
Linux kernel drivers to handle GPIO, leds, buttons and relays on the gateway.
- 2003–2008 **HRIS Analyst**, Affiliated Computer Services.  
Human resources information systems for several major accounts: Motorola, Freescale, General Motors and Continental.

## Education

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- 2003      **DESS Informatique Fondamentale**, Université Paul Sabatier, Toulouse.  
Specialised Higher Studies Degree, equivalent to an master's degree in computer science.  
Software engineering, hardware, networks and operating systems, databases and computer human interfaces.  
With honours, merit scholarship, top ranked student.
- 1998      **Baccalauréat S**, Lycée Pierre de Fermat, Toulouse.  
Equivalent to an A level specialized in mathematics.  
Specific studies in computer science, english and spanish.

## Other Experience

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- Since 2012      **Competitive programming.**  
Regular participation in CodinGame (world's top 3), Google Code Jam, Facebook Hacker Cup and BattleDev.
- 2006–2010      **Teaching**, Facebook architecture and ecosystem, Web 2.0.  
Presentations to the students of "Télécom SudParis" and "Université Paul Sabatier".
- 2008      **dtv5100**, a Linux driver for DVB-T dongles.  
Integrated since kernel 2.6.28.  
Linux system programming, module API, DVB integration, USB and I2C messages.
- 2007      **Eternity II**, a distributed computing project.  
An attempt to solve the puzzle. Collaboration with the winner of the contest.
- 2004      **zr364xx**, a Linux driver for webcams.  
Integrated since kernel 2.6.22.  
Linux system programming, video4linux API, JPEG/MJPEG decompression.
- 2003      **FAPG** (Fast Audio Playlist Generator).  
Lists of audio files generator, integrated in several Linux distributions.
- 2002      **irssistats**, allows to generate statistics based on IRC logs.
- 2001      **Prologin**, winner of the French National Contest of Computer Science.