



# Lucas Merlette

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## Profile

Seasoned AI leader with over a decade of experience driving innovation. Former CTO and senior engineer adept at crafting and managing cutting-edge AI solutions while leading diverse, cross-functional teams. I blend technical mastery with entrepreneurial spirit to deliver scalable systems and strategic value as a freelance AI consultant, developer, and manager.



## Education

01/2011 – 12/2016

**Computer Science | Bachelor's Degree**  
**EPITECH - European Institute of Technology**

01/2014 – 12/2015

**Computer Science**  
**RMIT University**

Courses in Photography, Project Management, Artificial Intelligence, Java, C#, Unity, PHP, Javascript, HTML/CSS, UML and SQL.



## Skills

### PROGRAMMING

Languages: JavaScript, TypeScript, Python, Golang  
Mobile: Android, iOS (Native/React Native)

### DATA SCIENCE & AI

TensorFlow, PyTorch, scikit-learn, LLMs, Chatbot Development  
Big Data Analytics, GDPR-compliant data pipelines, Data Processing

### INFRASTRUCTURE & DEVOPS

Cloud: Amazon Web Services, Google Cloud Platform  
Containerization & Orchestration: Docker, Kubernetes  
CI/CD & Automation: Jenkins, GitLab CI, Bash/Shell Scripting

Monitoring & Logging: Papertrail, Librato, Logentries, Prometheus  
Messaging & Queue Systems: Kafka, Kinesis, RabbitMQ



## Work Experience

06/2020  
Paris, France

**Chief Technology Officer**  
**Showdown Lab**

- Led a team of 60 individuals from various departments (Sales, Design, Front & Back-end Development, Mobile Development) to develop AI solutions tailored to meet specific business needs
- Implemented an Auto-Trading System and Monitoring for finance purposes



## Work Experience

- Created LLMs on WhatsApp for non-technical users through Chatbot technology
- Developed AudioTranscribe software for transcribing various types of audio content (Sales meetings, Courses, Conferences, Resumes)
- Designed and implemented an AI-powered Auto Scheduler for Luxury Pipeline, including automated order dispatch and prioritization in complex environments
- Established a Market Monitoring system for tracking news, podcasts, and other relevant content with trigger alerts
- Utilized technical stack including Python, Google Cloud Platform (GCP), JavaScript (JS), and React to execute projects efficiently and effectively

09/2019 – 05/2020  
Paris, France

### Software & Data Engineering Team Lead Tradelab

- Led the Software & Data Engineering team in the conceptualization, development, and maintenance of various tools to optimize the Tradelab IT ecosystem
- Acted as a liaison between the Engineering team and other departments (product, front, executives) to ensure seamless communication and collaboration
- Managed a team of 20 individuals, overseeing their tasks and responsibilities to drive successful project outcomes

02/2018 – 08/2019  
Paris, France

### Software Engineer Tradelab

- Managed a team of 6 back-end developers at Tradelab
- Spearheaded the development of an asynchronous task execution software with microservices and custom messaging system to streamline project focus for cross-functional teams
- Engineered a Single Sign-On authentication software tailored to meet engineering ecosystem needs, including credential validation, access token generation, and permission distribution
- Promoted and implemented authentication software across all IT services, teams, and software in alignment with IT guidelines and software craftsmanship philosophy
- Maintained and improved Python libraries for data science, computing, and data operations to enhance software engineering practices
- Led the development of tools for GDPR compliance, collaborating with GDPR team to address challenges of digital regulations
- Established an IT ecosystem by implementing software practices and engineering culture through various tools and initiatives
- Provided technical expertise and served as internal consultant for technical decisions on software and infrastructure principles
- Established a newsletter for the IT department to provide regular updates on software advancements, technical information, and monthly innovations for enhanced internal communication.

11/2016 – 01/2018  
Prague, Czech Republic

### Chief Technology Officer WonderStream

- Led and guided the IT team in executing the following key initiatives:
- Conceptualized and defined product scope, developed agency partnerships, and conducted market competition analysis
- Managed overall IT costs and supervised a team of 4 IT professionals
- Coordinated efforts with marketing and agency teams for seamless collaboration
- Oversaw data coverage and reporting for live broadcast eSports events with extensive viewership
- Implemented and maintained a big data and data science environment, including a botnet collecting concurrent data
- Managed data treatment, normalization, and precomputing pipeline for real-time data delivery
- Developed statistics dashboard with graphical representations and API integration
- Designed artificial intelligence software for online human behavior analysis using advanced machine learning tools
- Utilized video editing software to enhance highlights generated by AI within demanding performance standards
- Implemented DevOps environment with various technological tools and methods,



## Work Experience

such as:

- Cloud & Containers: AWS and Docker
- Message Queues: Kafka, Kinesis, SQS
- Storage & DBMS: AWS S3, Redis, Cassandra, AWS RDS MySQL & MariaDB
- Automated deployment & maintenance: Python and Shell scripts
- Log management: Redis and Logentries
- Backend software, workers & scripts: Python, Golang, Shell
- Dashboard backend/frontend: amCharts, Node.JS
- Established a comprehensive infrastructure with data treatment pipelines for real-time data delivery and scalability challenges
- Designed and implemented botnets within the infrastructure with focus on quality and security of command-and-control server operations.

03/2016 – 09/2016  
Paris, France

### Mobile Developer Things Are Moving

- Helped the development of Android and Titanium mobile applications, implementing key features and functionalities utilizing required APIs and websites.
- Executed the creation of a comprehensive API for a Titanium mobile application, integrating Python and Flask for seamless hosting and maintenance.
- Collaborated with cross-functional teams to ensure successful implementation of mobile applications and API solutions.

09/2015 – 02/2016  
Paris, France

### DevOps Legalstart.fr

- Implemented a comprehensive infrastructure utilizing AWS EC2/ECS, Docker, Heroku, Django, RabbitMQ, Celery, and logging and monitoring tools (Papertrail & Librato)
- Created detailed documentation for the entire infrastructure
- Automated environment creation, maintenance, and deletion using bash scripts
- Enhanced infrastructure with new tools for logging, monitoring, and clustering
- Developed and maintained Django modules for backend infrastructure, including RabbitMQ and Celery connections.

01/2015 – 03/2015  
Melbourne, Australia

### Software Engineer Conduct HQ

- Spearheaded the conception and development of an intranet using AngularJS and PHP (CakePHP).
- Provided support to the project manager by contributing to decision-making and concept development utilizing Atlassian tools.

04/2014 – 06/2014  
Paris, France

### C++ Developer D / Labs

- Designed and implemented internal software mechanisms in C++ utilizing the organization's framework
- Provided support during events by assisting the event leader and setting up and storing video mapping equipment

11/2013 – 03/2014  
Saclay, France

### Java Developer Ecole Polytechnique

- Collaborated with teacher-researchers at Ecole Polytechnique to design and implement a smart grid protocol using Java and Network Simulator
- Contributed to the development of a complex system aimed at optimizing energy usage and efficiency
- Utilized strong Java programming skills to ensure seamless integration of protocol within the network
- Demonstrated ability to work effectively in a team environment to meet project deadlines and deliverables.

08/2012 – 12/2012  
Thiais, France

### Web Developer Kiloutou

- Spearheaded the development of various web projects for a wide range of



## Work Experience

- businesses
- Coordinated the recruitment process for an intern developer



## Languages



French  
**Native**

Anglais  
**Full**