

CLEMENT JAMBOU

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Summary

Technical leader and entrepreneur with **10+** years experience in **AI/ML, Robotics & Autonomous Systems, Data Science, Software Engineering**, and **Space Avionics**. Proven track record of building and leading high-performing engineering teams across multiple countries, including founding and working at startups. Expertise in building and delivering products rapidly.

Career Highlights

- Led multiple engineering teams in **Data Science, Software Engineering, Hardware Engineering** across multiple industries (**Tech, Robotics, Space**) and countries (**US, France, Switzerland, China**)
- Designed autonomous robots (software and hardware) from drawing board to deployments of up to **30 units** in warehouses
- Grew **Lyft** data science team from **4** to **20+** while delivering critical marketplace algorithms

Selected Experience

CADBuildr Aug 2024 – Present

CEO & Founder – San Francisco, CA

- Founded **CADBuildr** to create, manage and share **3D** designs with **open-source** and **AI** technologies
- Built **AI**-powered **CAD** platform with natural language and multimodal interactions
- Developed **open-source Python CAD** library for programmatic **3D** modeling
- Created **LLM** microservice to serve models and integrate with **OpenAI** and **Anthropic APIs**

Accomplishments:

- Launched first multimodal **AI Agent** for **CAD** (text-to-CAD, image-to-CAD)
- Wrote **10,000+** lines of **Python/TypeScript** code
- Created and released **100s** of open-source **3D** models on **CADBuildr**

Exotrail

Nov 2023 – Aug 2024

Software & Avionics Engineering Manager – Paris, France

- Managed **Avionics** team developing embedded software for **Spacevan** autonomous satellite delivery vehicle
- Led **5-person** avionics team to release bi-monthly software updates
- Implemented a complete **Telecommand/Telemetry** system facilitating collaboration work on the **Spacevan** vehicle
- Implemented quality guidelines for the avionics team software and validation via a **CI/CD** system

Accomplishments:

- Transformed team structure and processes to establish reliable software delivery practices
- Upon departure, the company needed **three** new hires to replace my responsibilities

Coactum

Oct 2022 – Nov 2023

Software & Avionics Engineering Manager – Bex, Switzerland

- Executive Committee Member leading software/avionics development for early-stage vehicle systems
- Defined early-stage requirements and specifications for onboard software (CCSDS), firmware, and custom avionics
- Proposed and implemented technical interfaces format and process for vehicle engineering teams

Accomplishments:

- Joined as a consultant and was rapidly promoted to Executive Committee Member
- Created a rigorous hiring process for software engineering team

Mont Blanc Rockets

Jan 2021 – Present

Data Science & Software Engineering Consultant – Freelance

- Provided technical leadership and consulting services to companies across Machine Learning, Data Science, Data Engineering and Software Engineering
- Helped companies scale their engineering teams and improve technical processes

Accomplishments:

- Conducted **PostgreSQL** migration on a complex Data pipeline
- Worked with notable companies including **AXA**, **Pfizer**
- Became quickly one of the top consultants on **MALT** (French Tech Talent Network) receiving 10s of invitations per month due to positive feedback from companies.

Unsupervised.ai

2016 – 2020

CEO – San Francisco, Shenzhen and Paris

- Co-founded robotics company enabling digital factory transformation
- Led 8-person team across 3 continents
- Built an autonomous robot fleet from ideation to production of a 30-unit batch

Accomplishments:

- Generated **\$400k+** of revenue and raised **\$800k** in funding
- Attempted the selective (10% acceptance rate) **HAX** accelerator program
- Built a simulation in **Pybullet** to test and validate **RL** algorithms on a quadruped robot

Lyft

2014 – 2016

Senior Data Scientist – San Francisco

- Joined the **Marketplace Growth** team (ETA prediction, Driver/Passenger matching, pricing) and started the **self-driving** initiative
- Deployed production-grade **machine learning** and **deep learning** algorithms at scale
- Grew data science team from **4** to **20+** members

Accomplishments:

- First joined as an intern and quickly promoted to **Senior Data Scientist**
- Built a key simulation tool for dispatch optimization that was widely adopted across the **Data Science** team, delivering significant improvements including pricing, driver utilization and **Lyft Line** matching efficiency
- Started the first **self-driving** program (**SLAM**, **LiDAR**) at **Lyft**

Education

Imperial College London, MSc in Advanced Computing

2013 – 2014

Institut Supérieur de l'Aéronautique et de l'Espace, Supaero Graduate Program

2011 – 2014

ESA, Intern, Telerobotics and Haptics Laboratory

2012

Skills

Management & Tools:

- Methodologies: Agile/Scrum, Sprint Planning, Retrospectives
- Project Tools: Jira, Notion

Programming Languages:

- Python (Pandas, NumPy, TensorFlow, PyTorch, Pydantic, FastAPI, Flask)
- C/C++
- JavaScript/TypeScript (React, NextJS)

Data Science & ML:

- Frameworks: Pandas, NumPy, TensorFlow, PyTorch, Scikit-learn
- Algorithms: LLMs(RLHF, RAG, Fine-tuning), Reinforcement Learning, SVM, Random Forest
- Optimization: Operations Research, Back Propagation

Infrastructure & DevOps:

- Containerization: Docker, Kubernetes

- CI/CD: GitHub Actions, GitLab CI, Jenkins
- Cloud: AWS (EC2, S3, Lambda), Google Cloud
- Databases: PostgreSQL, GraphQL

Robotics & Simulation:

- Frameworks: ROS/ROS2
- Simulation: Gazebo, PyBullet
- Design: CAD (Solidworks, Fusion360), 3D Printing, Electronics(KiCad)
- Algorithms: SLAM, Path Planning, Control

Natural Languages: English (bilingual), French (native), German (intermediate)

Awards & Honors

These awards demonstrate a strong technical foundation in mathematics and engineering reflecting my consistent record of academic and professional excellence.

Speaker at PyData Paris	2015
1st Prize, ASME Student Design Competition	2012
Junior Fermat Prize in Mathematics	2010
1st Prize, International Tournament of Young Mathematicians	2010
2nd Prize, Academy of Versailles Mathematics Olympiads	2008

Interests

I love pushing my limits through endurance sports as it keeps me disciplined and resilient but also provides an outlet to come back to a problem with a fresh perspective. I'm also always looking for ways to optimize both physical and mental performance.

- **Sports:** Running Coach and Competitive Runner (**Marathon PR: 2h33**, **UTMB 105 miles** Finisher), Soccer, Mountaineering (**Denali** summitter)
- **Hobbies:** Robotics, Electronics, Space
- **Music:** Cello, Guitar