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 Superieur de l'Aeronautique 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** summiter)
- **Hobbies: Robotics**, **Electronics**, **Space**
- **Music:** Cello, Guitar