

Thomas DARGON

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I have a MSc in Mechanical Engineering and a background in hardware product design and development. After developing a strong interest in programming and web technologies I decided to change careers at the beginning of 2020. I have been delighted to work in this innovative and stimulating field since. Through my experience working internationally in Australia, Canada, France and the UK, I have become highly adaptable and resilient in a fast-paced, changing and demanding work-environment. I am looking to join a team within an innovative company which will allow me to use my technical and creative skills in order to manage and deliver challenging projects.

Professional Experiences

Software Engineer, Koodoo — Remote, UK.

March 2021 – Present

Koodoo is building a distribution and lending platform for the UK mortgage industry. Everyday, I am using exciting technologies to build innovative 'white-label' frontend applications and distributed micro-services APIs that we deploy over Google Kubernetes Engine and Netlify following CI/CD practices.

Since joining Koodoo I have gained experience building production grade applications, became proficient with modern JavaScript development workflows, Continuous Integration best practices (automated unit and integration test checks) and gained a wide understanding of platform engineering through collaborative work with the wider Engineering team (QA, Platform and Devs), Product Owners and Designers to solve complex technological problems within an Agile framework.

Tech stack:

Platform: Docker, Kubernetes, GCP, CircleCI and GitHub Actions., Prometheus & Grafana.	Frontend: React, Tailwind, Next.
Backend: Node, Express, MongoDB(Atlas).	Testing: React Testing Library, Jest.

Achieved Google Certification in 2021: [Architecting with Google Kubernetes Engine](#)

Full-Stack Web Developer, Freelance — Norwich, UK.

January 2020 – March 2021

<u>Languages & Frameworks</u>	<u>Tools & concepts</u>
<ul style="list-style-type: none">• Node, Express• React, Vue• MongoDB• JavaScript (ES6+), HTML 5, CSS 3• Templating engines (Pug)• Python, Flask, SQLite	<ul style="list-style-type: none">• Git, Github• Ubuntu / Nginx / DigitalOcean, Heroku, Netlify• MVC architecture / REST APIs / SPAs• Mobile first, accessible and responsive UI design• CMS: Ghost, Strapi.js• Unit Testing (Mocha, Chai / Jest)

Projects: github.com/argonathmos

Lead Design Engineer, Sphere Energy — Paris, France.

January 2018 – January 2020

Sphere Energy is a spin off from the Laboratory of Solid State Chemistry at Collège de France in Paris. It's goal is to design, produce and commercialise tools and equipments for laboratories in the field of Energy and Material Science. I was the first Engineer to join the newly created start up hosted within the research facility. My main duties focused on Product Design covering all the phase from the prototyping/proof of concept to the scaling up of small production, Business development (digital marketing, physical conferences) and Supply chain management. After 2 years we developed 4 CE certified products commercially available in Europe, reached a valuation of 2 M€ and successfully filled one European Patent.

Set Designer, Sydney Prop Specialists — Sydney, Australia.

September 2016 – May 2017

Sydney Props specializes in the design of sets for the TV, photography and movie industry. I was in charge of the construction of scenic spaces, furnitures and accessories. Producing custom-made pieces for different clients allowed me to develop skills in furniture design, carpentry, painting and moulding. Within an international team, I have learnt to work efficiently to deliver high quality work under short construction delays.

Design Engineer, Lezar3D start-up — Montréal, Canada.

July 2015 – October 2015

At Lezar3D, my role was to assist the clients with the 3D printing prototyping process, using FFF 3D printing techniques. From the design of 3D models to answer different products requirements to their production on site using MakerBot and 3DSystem printers. In this small structure (3 collaborators) I also developed extensive skills in general entrepreneurship, sales and marketing.

Research Assistant, ETS — Montréal, Canada.

March 2015 – July 2015

Within the "Products, Processes and Systems Engineering Laboratory" of ETS Engineering School. I developed a set of tools using JAVA and OpenGL, to analysis and compare CAD software user's behaviour during the modelling process of parts. Data gathering from the CAD modelling process. Data analysis and production of graphical models to allow visual comparison between users.

Site Manager intern, Léon Grosse — Paris, France.

June 2014 – September 2014

During the renovation of the Museum of Mankind in "Le Palais de Chaillot" (one of the most famous historic monuments of Paris), I was leading a team composed of 10-construction worker in their everyday tasks. Management of the interactions with the various interlocutors of the site (Clients, Architects, Sub-contractors, Set Designers, Suppliers...)

Education

MSc Systems and Information Science — Aix-en-Provence, France

2015

Partnership which allows final year students at ENSAM ParisTech to acquire a double degree: diploma from ENSAM and a MSc in Systems and Information Science from Aix-Marseille University. To fulfill my degree, I had to pursue a research internship and write master thesis which I presented at the ETS Montreal in Canada.

Courses followed: Information Systems, Product design processes and knowledge modeling, Information modeling and processing.

MSc Mechanical Engineering — ENSAMParisTech — Paris, France.

2012-2015

French graduate school of engineering. Delivering a "titre d'ingénieur" which is equivalent to a MSc in Mechanical & Industrial Engineering. I was ranked in the top 10% at the competitive entrance examination.

Courses followed: Product development, computer aided design, industrialisation, project management. Mechanics, Materials Science, Manufacturing technologies and processes.

BSc Engineering — Lycée Dorian PTSI/PT — Paris, France.

2010-2012

2-year intensive mathematics, physics and engineering sciences (industrial design, materials science). Equivalent to BSc Engineering. Preparing the competitive exam to enter the French "Grandes Ecoles" - Graduate School of Engineering.

Projects / Passions

Traveling

2015 – 2016

After completing my engineering studies in France, I decided to go and live abroad. My first experience in Canada was so rich that it triggered the beginning of a two-year adventure during which I had the opportunity to visit over 18 countries. I have worked in Canada and Australia, participated in adventures in India, South East Asia and Japan as well as getting involved in cultural and professional exchanges through volunteering in Central America.. Each of these unique experiences has opened my mind, and given me a better understanding of the world. I was grateful to meet highly interesting people while practising foreign languages.

Sports

I have been skateboarding for 20 years and am a huge fan of extreme sports including surfing and snowboarding.

I am also a cycling enthusiast and love hiking and long-distance trails, the two hikes I am the most proud of are: Mount Bartle Frere: 1,611m (highest peak in Queensland Australia) and the Acatenango volcano in Guatemala: 3,976m.
