

Alexandre Chaintreuil

Education

- 2012 – 2016 **Ecole Centrale Paris**, *Master of Engineering*, Paris, France.
• General engineering with major in Computer Science and minor in Embedded Systems
- 2009 – 2012 **Lycée Joffre**, *Classes Préparatoires*, Montpellier, France.
• Intensive program to prepare for the competitive examinations of French Engineering schools

Work Experience

- Jan. 2018 **Sicara**, *Software Engineer*, Paris, France.
Present Agile data-science company from the M33 startup ecosystem
• Built a reverse image search engine with Keras on a AWS GPU instance
• Optimized performance of several application, making requests up to 4 times faster
- Nov. 2016 **Theodo**, *Full-stack Software Engineer*, Paris, France.
Dec 2017 Agile software development company based on Lean and Scrum from M33
• Created RESTful APIs using Flask in a microservice architecture
• Built a web application in React consuming those APIs
• Migrated microservices and applications from external servers to the client's infrastructure
• Implemented newsletters and integration of an external API on a Symfony2 application
- May 2016 **Thales Alenia Space**, *R&D Intern*, Cannes, France.
Oct. 2016 French satellite manufacturer
• Researched ways of giving more autonomy to satellites
• Implemented a closed-loop control system based on the linear-quadratic regulator to correct the orbit of satellites
• Implemented a simulator in MATLAB to validate the system

Extracurricular Activities

- 2015 – 2016 **Drone Collision Avoidance System**, *6-month project*, Paris, France.
• Integrated depth map generating hardware with a virtual force algorithm coded in C++
• Calibrated the algorithm with a rolling drone and real world data
• Developed an application in C to pilot a flying drone that communicated with the vision hardware and that took over the user's controls when an obstacle was considered dangerously close

Programming & Language Skills

Programming Python, Javascript, C++, MATLAB
Languages French (native), English (fluent)

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