

Kavirthan KARUNAKARAN

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Born 26th February, 1995 in Paris XVth – French nationality

Technical Project Manager — DevOps Engineer

A qualified computer science engineer with a passion for aeronautics and new technologies, I combine in-depth expertise in software engineering with a thorough understanding of DevOps and cloud cultures. I lead complex projects in agile environments, with a focus on innovation and performance.

Experience

Technical Project Manager / DevOps Engineer

01/2022 – Present (5 years – Public sector contract)

ISAE Supaéro – Toulouse (31) – France

Department: Innovative Digital Education for Aerospace

- Technical leadership and team management (10 developers): defining development standards, validating technology choices, task allocation according to skills, and daily support.
- Architecture and solution integration: design and deployment of virtualized server architectures (Docker, Kubernetes on OVH Cloud), robust CI/CD pipelines (GitLab, Jenkins, Ansible, Terraform).
- Agile project management: planning and leading daily SCRUMs, sprint reviews, task prioritization, and sprint adjustments to ensure timely project delivery within scope; harmonizing working methods across multidisciplinary teams.
- Technical reporting and performance tracking: creating consolidated dashboards to measure service quality, project progression, and user satisfaction (Grafana, Prometheus).
- Development, testing, versioning (Vue.js, Drupal, Java, and Python).

Software Integration Lead / Embedded Software Engineer

11/2019 – 10/2021 (2 years – VIE)

Airbus Helicopters – Donauwörth – Germany

Department: Military Software Products

- Coordination of a team of international developers (3 people) and implementation of DevOps: CI/CD using Docker/Jenkins/GitLab on a Raspberry Pi cluster, script automation (Matlab to C), automated testing in ROS containers and monitoring.
- Development of CDU interfaces (cockpit displays) for the future Tiger MkIII helicopter (touchscreen, buttons, sliders) in C, C++ and Thales' proprietary OpenGL library.
- Drafting of DO-178C objectives (Reqtify), ensuring compliance with software development standards for aeronautical embedded systems and equipment (DAL process).

IT Project Manager / Software Engineer

11/2017 – 08/2019 (2 years – apprenticeship)

Airbus Defence & Space – Toulouse (31) – France

Department: 3D Space Lab & TLS CAD Process

- Managing a team of developers, delivering DevOps training: CI/CD, automated testing, and monitoring projects and the technical skills acquired by developers.
- Introducing Agile development methods (Scrum) within the design office and DevOps processes: testing, continuous integration, etc.
- Process digitalisation: digital transformation of documents containing Excel macros and paper documents into web-based tools (PHP, MySQL, VB.NET) + integration with SAP and Windchill databases.
- Support for the 3D Space Lab's web tools (C#, Android, graphics).

Software Developer

04/2017 – 08/2017 (4 months – intern)

Médicapteurs – Toulouse (31) – France

- Developed software installation programs using Pascal and Inno-Setup.
- Created cross-platform mobile applications for iOS, Android, MacOS, Windows with Xamarin (.NET, C#).
- Developed a 3D Serious Game for children with disabilities using C# and Unity.

Education

2026 – Automation & CI/CD: Ansible (Advanced Level) – Dawan

2024 – Security Pentesting: 'Hacking Techniques and Countermeasures – Level 2' – M2i Formation

2023 – Security Pentesting: 'Hacking Techniques and Countermeasures – Level 1' – M2i Formation

2022 – SCRUM and Agility Training – Agile Project Management – Retengr

2019 – Master's in International IT Project Management – ESAIP Engineering School – Toulouse (31)

2017 – Bachelor in IT Project Management – Ecole La Mache – Toulouse (31)

2015 – 2 years University degree in Mechanical Engineering and Production – Toulouse II Jean Jaurès University – Figeac (46)

2013 – Scientific Baccalaureate with Engineering Sciences and Computer Science – Lycée A. Bourdelle – Montauban (82)

Skills

Management: Team leadership, organization, cross-functional communication

Project Management: Agile (SCRUM), V-Model; Tools: ClickUp, JIRA, MS Project, Trello

DevOps & Continuous Integration: GitLab, Jenkins, Docker, Kubernetes, Helm, Ansible, Terraform

Development:

- Languages: C, C++, C#, Java, Python, PHP, JavaScript (jQuery, Angular, React, Vue.js)
- Frameworks & CMS: Drupal, Laravel, Prestashop, WordPress
- Web: HTML5, CSS3, Bootstrap, Material Kit, Semantic UI

Databases: PostgreSQL, Oracle, MySQL NoSQL, Nuxeo

Computer-Aided Design (CAD): CATIA, SolidWorks, AutoCAD

Other : Matlab Simulink, Photoshop, Reqtify...

French (Native)

English (C1)

German (A2)

Tamil (Native)

