< http://fermatinternational.com/>

Job Opening

# Senior System Software Engineer

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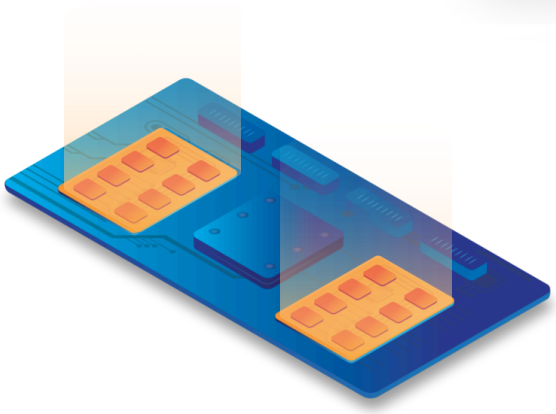

**A New Generation of Computing Architecture designed for Big Data Analytics & AI**

Fermat is a software and hardware company developing a high-performance computation solution. Fermat's solution rethinks the traditional Von Neumann approach



AMD 1060
Advanced Micro Devices v. Fermat Int'l
IPR2026-00358

in designing its platform. The company has designed a patent pending Data-Aware Architecture for high performance computation and data management/storage. Fermat's hardware platform is completed by its software platform. This is a full software stack that comprises of:

- Firmware which manages and orchestrates access within a Fermat Hardware Module
- Host software that presents a low friction API for using one or more Fermat Modules within a host system
- An Emulator that allow developers test their code in the absence of the physical Fermat Module
- Libraries of pre-compiled, FPGA-based algorithms

**Role Profile**

The successful candidate must have strong computer science foundation and be able to confidently participate in design reviews and implementation teams. If you are passionate, flexible, and have a love for innovation and problem solving, Fermat is the right place for you!

You will be part of a distributed product development team based in France, headquartered in Paris, that develops and maintains the Fermat software platform. The software platform together with a Fermat module provides application programmers with access to high-performance algorithms, from basic math through AI inference.

You will be part of a fast-growing, deep tech company that is currently working with several Fortune 500 customers both in France and in the US.

**Your daily tasks will include:**

- Design and implementation of new features at a system and kernel level
- Participating in requirements, design and architecture discussions
- The opportunity to provide technical leadership throughout the delivery of the Fermat software stack
- An opportunity to proactively assess and recommend emerging new trends and technologies the company should pay attention to
- Travel to Fermat's Basel offices

**Qualifications & Experience:**

- Bachelor of Science or equivalent experience in computer science, mathematics and/or electrical engineering
- 5 to 10 year's of relevant experience developing APIs, programming frameworks, SDKs, firmware and/or embedded system solutions
- Team orientation with good interpersonal skills
- An ability to be well organized, flexible, proactive and detail orientated
- Working knowledge of professional software engineering practices and best practices
- Fluency in English
- A generally willingness to step up and do what needs to be done – Fermat is, after all, a startup company

Good working knowledge experience of the following technologies will be required

- Use of Github
- C Programming ideally in Unix type environment
- FPGA, ARM architecture and Embedded Systems programming is a strong plus

**Compensation:**

Compensation is based on experience. The compensation plan has multiple elements: base salary, performance bonus and equity options

*FERMAT is an Equal Opportunity-Affirmative Action Employer*

## Let's get in touch

Who are you?

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27/29 Rue Raffet, 75016 Paris

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