


# Sebastien Jourdain

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 jourdain

☆ Stars	3,891
🔗 Forks	1,087
📁 All-time contributions	19,700
± Lines of code changed	8,705,300
👁 Repository views (past two weeks)	14,626



● JavaScript 47.33%	● Python 26.06%
● HTML 23.51%	● Vue 1.50%
● CMake 0.67%	● Shell 0.42%
● C++ 0.30%	● Dockerfile 0.18%

## Skills



Python, JavaScript / Vue.js, Vuetify / Docker,  
AWS / Git, CI/CD, Github Actions / trame, VTK,  
ParaView, PyVista, CMake

## Libraries

[trame](#) ([vtk](#), [simput](#), [plotly](#), [xterm](#), [code](#), ...)  
[PyVista](#), [VTK](#), [vtk.js](#), [wslink](#)

## Applications

[Multi-Variate View](#), [ParaView](#), [Visualizer](#) ([trame](#),  
[async](#)), [Divvy](#), [Glance](#), [ArcticViewer](#)...

## Collaborations

[Hydroframe](#) ([parflow](#), [sandtank](#), [sandtank-ml](#))  
[CASL](#) ([VeralnView](#), [VeraCore](#), [Peacock](#))

**Full-Stack engineer**, thriving in challenging situations that require innovative thinking across technologies. Enjoy working with distributed architecture with a web frontend.

## Professional Experience

3 companies in 22 years

### Kitware Inc. (NY and NM, USA)

Feb 2010 - Present

#### Strategic innovator

- Guided the design and development of the next generation of ParaView toward an asynchronous design to enable uninterrupted interaction and data processing over the web.
- Spearheaded interactive web solutions for data processing and visualization using VTK and ParaView which lead to the creation of [vtk.js](#) (👁 100K/month) and [wslink](#) (👁 155K/month).
- Created [trame](#), a Python framework for building interactive applications with a web frontend. [Trame](#) enables faster (2x) delivery from a broader set of developers (Python only). (👁 130K/month)

#### Mentor and manager

- Mentored many colleagues within the full company in my area of expertise but also helped a couple to grow and get better at their problem solving skills.

#### Lead architect and software engineer

- Designed many web applications leveraging VTK/ParaView for customers from a wide range of domains.
- Created the full VTK/ParaView Web stack that lead to the creation of [trame](#).

### Artenum (Paris, France)

Sep 2004 - Jan 2010

#### Architect and software engineer

- Created several tools for SPIS (Spacecraft Plasma Interaction Software) including a post-processing application based on VTK and Java.
- Managed LibreSource, a collaborative platform similar to gitlab at the time.

### LORIA/INRIA (Nancy, France)

Sep 2002 - Aug 2004

#### Research engineer for software support

- Implemented research algorithms for data synchronization into a version control system.
- Integrated version control system into LibreSource, a collaborative platform for software development.

## Education

French engineering school

### University of Lorraine (Nancy, France)

Sep 2001 - Jun 2002

- M.S.E. in Software design and architecture.

### Polytech (Nancy, France)

Sep 1998 - Jun 2002

- M.S.E. in Engineering and Computer Science.
- Valedictorian in-major