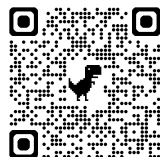


# Sebastien Jourdain

sebastien.jourdain@me.com  
Santa Fe, NM, 87507, USA  
(505) 310-7690



sebastien jourdain

81365598289

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

[XArrayViewer](#), [Multi-Variate View](#), [ParaView](#),  
[Visualizer](#) ([trame](#)), [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 designing and working on advanced 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](#) (👁 160K/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). (👁 135K/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

Engineering school in France

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