

# SACHA DAVID

## Senior Frontend Architect & Fullstack Engineer



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### OVERVIEW

Senior Fullstack Developer with 9+ years of experience leading **frontend architecture**, **real-time** detection **SDKs**, and tooling for clinical and med-tech platforms. Strong in **Vue.js** and modern **JavaScript**, with growing use of **React** and **TypeScript**. Skilled at connecting frontend systems to backends built in **Node.js** and **Python**. Architect of scalable, **camera-integrated SDKs** used by millions, and **internal tools** supporting clinical, QA, and product teams. Known for building **mature, high-performance** systems with a focus on **real-time accuracy** and development **efficiency**.

### Experience

#### Senior Fullstack Engineer & Web Architect (Jun 2016 - Present)

Seekwell / Luna / 6over6 (acquired & rebranded)

While holding full technical ownership across all frontend projects, I also took on tech lead responsibilities during periods when we worked in product-focused pods. In these rotations, I was assigned to lead the development of new products and SDKs from scratch, rather than maintaining existing ones. I guided architecture decisions, mentored teammates, aligned with backend and product, and took ownership of delivery quality. These leadership experiences complemented my broader role as architect and primary developer across the company's frontend systems.

- Designed and built **real-time** flows using **TFJS**, **YOLO**, **Facemesh**, **Pose**, **microphone**, **camera**, and **device sensors** to support clinical detection, **voice input**, and guided user interactions
- Created **schema-driven**, **drag-and-drop** tools that **render UI dynamically** via **JSON Schema**, **SVG**, and **component builders** (enabling non-devs to author flows)
- Developed **camera-based SDKs** embedded in external sites that use **canvas**, **real-time detection**, and **image optimization** to extract visual data with **high precision**
- Refactored and **modernized legacy codebases** by **analyzing** architecture, **improving** structure, and implementing **scalable redesigns** without disrupting existing functionality.
- Ensured **compatibility** across **multiple browsers** and **device types** through extensive cross-platform testing and responsive implementation, essential to performance.
- Architected session tracking tools capable of handling large volumes of session data, dynamically rendering different layouts and content types based on each dataset's structure. supporting QA, clinical, dev, and product teams.
- Built synced **multi-device SDK** using **WebSockets** and **SVG** overlays to align phone and desktop visuals for prescription detection
- Led all frontend architecture, focusing on **high performance**, **efficient** asset handling, and **robust** internal tooling. **Optimized** FPS, tailored behavior to specific devices (e.g., iPhone camera specs), and implemented asset pipelines to ensure **fast, reliable** user experiences.
- Built a secure internal platform using **microfrontend** architecture and **OAuth**-based authentication, providing role-based access to a suite of operational tools including flow management, debug, and data review interfaces.
- Delivered stable systems considered mature and low-maintenance, used by millions globally

#### Graphic Design & 3d Modeling

Freelance (Jan 2014 - Jun 2016)

Delivering visually compelling assets for digital and print media. Turned concepts into high-impact visuals using a variety of tools

### EDUCATION

#### Elevation Academy (2016 - 2016)

Intense bootcamp for computer programming

#### LA ORT College (2013 - 2014)

Associates degree in Digital Media & frontend development

#### University of Brighton (2005 - 2008)

Bsc (hons) in Building Surveying

### TECHNICAL SKILLS

Frontend	Vue.js (primary), React, TypeScript, Javascript, SCSS, CSS, HTML, Websockets
Architecture	Frontend architecture, JSON-schema-driven
Backend	Ui's, JS packages Node js, Python. Flask, Rest API's
Devops & Tools	Docker, Docker Compose, Redis, CI/CD, Git
Other	Real-time CV pipelines, medical SDKs, state machines, SVG precision overlays

### References

Available upon request

### PERSONAL SKILLS

- Initiative
- Independence
- Communication
- Learning Agility
- Problem Solving
- Adaptability
- Teamwork