Sebastian Webb

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TECHNICAL PROFILE

	Current	Core	Systems
I build performant developer tooling. For the last decade, I've solved problems in compilation optimisation, visual IDE design, and AI-driven development. I'm experimenting with parallel agents on 3 devices, plus cloud.	Next.js 15+	Cursor	Firebase
	React	JS (ES6+)	Google Cloud
	TypeScript	Node.js	Docker
	GraphQL	Web Workers	GitHub
	PostgreSQL	PHP (OOP)	GitHub Actions
	Vertex AI	CSS	Playwright

EXPERIENCE

Themeover: Founder & Lead Developer   2012 – Present
Built and evolved Microthemer, a visual development IDE for WordPress.

Agentic AI & Modern Stack
Built a generative AI design engine on Vertex AI with sub-second latency for live DOM manipulation. Engineered a custom XPath analysis system to feed layout data to an LLM, then built a structured protocol to translate AI intent into working code. Currently optimising for AI-driven workflows using Next.js 15, TypeScript, Tailwind and asychronous coding agents.

Performance & Compilation
Engineered a selective Sass compilation engine achieving 50ms compile times on projects with 3,000+ selectors. Built an AST parser to create a dependency map that only compiles what changed, thus making Sass compatible with a live editing experience. Solved the browser limitation of pseudo-elements not supporting mouse events by building a projection engine using CSSOM coordinate measurement.

Visual Systems
Mapped the full CSS Grid spec to interactive drag-and-drop controls with bidirectional sync, building a custom parser to normalise computed sub-pixel values into clean grid coordinates. Developed a secure PHP expression evaluator using a character-walking stack to safely interpret nested logical expressions without eval().

Infrastructure
Built a high-performance HTML inspector synchronised with an ACE editor using node-index snapshots, offloading code beautification to Web Workers. Created a remote telemetry system to deduplicate client-side exceptions and bundle them with contextual metadata for remote conflict resolution.

EDUCATION

BSc (Hons) Psychology, 1st Class, Nottingham Trent University