Willem Garnier

Software Engineer - Cloud Architecture - Full-Stack Web Development

Fluent Languages	**Nationality**	**Date of Birth**	**Home Address**
English / French	French	1996-07-15	21 Chatsworth Avenue Cambridge CB4 3LT United Kingdom

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Professional Experience

Lead Developer Ipsos S.A.   2022 – Present

> Leading a **cross-functional team of 12 engineers**, end-to-end developing the Ipsos MediaCell product.
> Both **team management**, as well as **line management** responsibilities.
> Primarily responsible for a backend cloud-based data processing platform (**Python** + **Rust**, running on **AWS**).
> Additional development experience across both Android (**Kotlin** / **Java**) and iOS (**Swift**) apps, as well as low-level audio processing algorithms (**C++**).

Senior Cloud Developer Checkit Ltd.   2021 – 2022

> Responsible for the development of both the company's user-facing frontend applications, as well as the backend data processing pipeline powering the platform.
> Primary technologies used: **TypeScript** (**node.js** / **React.js** / **Angular.js**), **PostgreSQL**, **MongoDB**, **Terraform**.
> Developed some internal **Go** projects (eg. a custom Terraform provider).
> Regularly involved with high-level design and architecture decisions.

Software Developer Luminance Ltd.   2018 – 2021

> Full-stack web development of a modern single-page application.
> Primary technologies used: **node.js** (**express.js**), **PostgreSQL**, **three.js**, **d3.js**.
> Led the development of new projects and applications from the ground up.
> Regularly involved with the teaching/training of new developers.

Education

MMath in Mathematics The University of Warwick, UK   2014 – 2018

> Four-year integrated **Bachelor's** + **Master's** degree course in Mathematics.
> Graduated with **1st class honours**.
> Thesis subject: Graph theory (delay-colourings of bipartite graphs).
> Other modules of note: Machine Learning, Group Theory, Fractal Geometry, HPC for Physics.

IB Diploma The British School of Warsaw, Poland   2012 – 2014

> Graduated with a total of **41 out of a possible 45 points**.
> Subjects taken at a higher level: Mathematics (7/7), Physics (7/7), and Computer Science (6/7).
> Subjects taken at a standard level: Psychology (6/7), English (6/7), and Spanish (7/7).

IGCSE The British School of Warsaw, Poland   2010 – 2012

> Subjects included Mathematics at an extended level (A*), Physics (A*), Chemistry (A*), and Biology (A*), among others.

Technical Skills

I am keen to keep using...

> **Rust** - My go-to language for most projects. Very little downside.

> **Python** - For faster iteration, and quick scripting.

> **Javascript** / **HTML** / **CSS** - For frontend (or full-stack) web development, as well as any scripting requiring easier concurrency. Web frameworks wise, I have professional experience with **React**, and personal experience with **Svelte** and **Vue**, but my preference is usually to go vanilla unless a framework is actually necessary.

> **Cloud Platforms** - Most experience through AWS. You may eventually outgrow it, but until then it's often worth it.

> **PostgreSQL** - The database engine which I've had the most pleasure working with.

> **Unix** - No flavour in particular. Mostly used MacOS professionally.

> **Git** - Used throughout my career with no complaints. Preferred platform (if not distributed) is **GitHub**.

I am interested in...

> **Go** - Confident with the language, having used it in a professional setting for several projects (at Checkit).

> **Kotlin** - Limited experience through Android app development (at Ipsos), but that wasn't my primary area of focus.

> **Ruby** - Not used professionally, but its strong community sells it as a good language to work with.

I am also familiar with...

> **Java** - Used professionally at Ipsos. First language used in a formal setting (IB Computer Science course).

> **C++** - Developed and maintained low-level (high performance) audio processing algorithms at Ipsos.

> **PHP** - Used professionally at Ipsos, and one of the first languages I learned as a teenager.

> **MySQL**, **SQLite** - Used extensively at Ipsos.

> **MongoDB** - Used professionally at both Checkit and Ipsos.

> **Jenkins** - Used throughout my career, until Ipsos migrated to GitHub.

> **Jira**, **BitBucket**, **Confluence** - Used at both Checkit and Ipsos.

Other Skills

Quick, Independent Learner

> Self-taught programming at an early age by taking an interest in game development and modding.

> Frequently needed to rapidly adapt to thrive in high-pressure environments.

Compassionate Leader

> Transparency is at the core of my values, striving to build a team-wide feeling of product and process ownership.

> As a naturally empathetic person, I aim to foster a healthy, inclusive, and supportive working environment.

> Learned many valuable, transferable leadership and organisational skills as a team captain and coach.

Strong Communicator

> Experience as a teaching assistant, as a student supervisor, and even as a coach has taught me to communicate information clearly, effectively, and appropriately for a variety of target audiences.

> Have frequently presented products being developed to non-technical audiences of investors and other stakeholders.

Ultimate Frisbee

> The sport has been my primary hobby since 2014, and still takes up the majority of my free time.

> Competed at the European Championships multiple times.

> Most of my annual leave will be used travelling for tournaments.