

# Willem Garnier

Software Engineer - Cloud Architecture - Full-Stack Web Development

## Fluent Languages

English / French

## Nationality

French

## Date of Birth

1996-07-15

## Home Address

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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 Lumiance Ltd.

2018 – 2021

- > Full-stack web development of a modern single-page application, visualising large datasets using AI.
- > Primary technologies used: **JavaScript (node.js / express.js)**, **PostgreSQL**, **Three.js**, **d3.js**.
- > Led the development of new projects and applications, responsible for technological and architectural decisions.
- > 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.