

Caleb Hartshorn

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15 Pierrepont St.
Bath,
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Software engineer with experience building SaaS platforms, cloud infrastructure, and client-facing systems. Comfortable across backend services, IaC, CI/CD, and cloud deployment, with a focus on hands-on engineering and shipping reliable solutions.

WORK HISTORY

Software Engineer (Promotion) - 8/2025 - Present

Platform48 | Bristol, Somerset

- Built automated CI/CD pipelines to containerize services and deploy to Google Cloud Run, including OpenAPI-driven SDK code generation and isolated staging environments for end-to-end validation.
- Designed core architecture for an IaC-focused SaaS platform, and built the systems that dynamically generate terraform configuration and deploy client infrastructure.
- Worked closely with clients and stakeholders in a fast-moving startup environment, delivering prototypes and technical demos to guide complex architectural decisions.

Tech highlights *Infrastructure/IaC (Terraform/Tofu), CI/CD (GitHub Actions), cloud services (GCP), backend services (Go, Python), web stack (React/Next.js), databases (PostgreSQL, MongoDB), networking/proxying (Docker, HAProxy).*

Junior Software Engineer - 6/2024 - 8/2025

Platform48 | Bristol, Somerset

- Built core SaaS platform systems: user management, authentication, payments, billing, and invoicing.
- Developed AI-driven features using LLM APIs, vector embeddings, and RAG pipelines and creating MCP server.
- Built client prototype, directly contributing to £250k+ in contracts and enabling team growth.
- Independently delivered client project valued at £20k end-to-end in one month.
- Progressed steadily in compensation and role, driven by strong performance and increasing leadership responsibility.

EDUCATION

BSc (Hons) Computing

First-Class Honours

Bath Spa University - 2024

SKILLS

Languages: Go, TypeScript, Python, Java, C++, C#

Web: React, Next.js, Svelte

Cloud & Infrastructure:

AWS, GCP, Terraform

Databases: PostgreSQL, MySQL, SQLite, MongoDB

Tools & Practices: Git,

CI/CD, REST APIs,

Agile/Scrum

Other: Games Dev (Godot), Raspberry Pi, Networking (TCP/UDP, Wireshark, Nmap), CAD (SolidWorks, OnShape)

CERTIFICATIONS &

ACCOMPLISHMENTS

Certified SolidWorks

Associate

SolidWorks - 2016

Excellence in Engineering

Award FIRST Robotics - 2017

Tech highlights *Full-stack development (Go, Python, Svelte, React, Next.js), cloud deployment (GCP), data (MongoDB), networking (HAProxy), mobile (Android), payments/auth (Stripe, Kinde).*

Computing Curriculum Developer - 12/2023 - 5/2024

Bath Spa University | Bath, Somerset

- Designed course content, assessments, and learning materials for foundation-level computing modules.
- Trusted by senior faculty to lead curriculum development, due to high-quality early contributions.

Computing Teaching Assistant - 10/2022 - 5/2024

Bath Spa University | Bath, Somerset

- Assisted professors in delivering lectures and workshops.

Software Developer 12/2022 – 10/2023

SignSol Ltd | Bristol, Avon, UK

- Developed custom communication software for Variable Message Sign (VMS) traffic systems.
- Reverse-engineered bespoke VMS protocols using Python and Wireshark.

Programming Teacher - 01/2020 - 01/2021

Harmony Educational Services | Lihue, HI, USA

- Delivered tailored programming lessons and designed a structured Scratch-based middle-school curriculum.

Software Engineering Apprentice - 07/2018 - 09/2018

Kauailabs | Lihue, HI, USA

- Developed C++ network communication modules for embedded IMU robotics hardware and showcased the technology at the FIRST Robotics World Championship.

VOLUNTEERING

Course Representative

BSU - 2021 – 2024

FRC Championships

FIRST Robotics - 2018

Coding & CAD Tutor

KauaiBots – 2017

Piano Tutor

Bandwagon, Lihue - 2016

HOBBIES & INTERESTS

Video Game Development

Robotics & Electronics

Music Composition

PERSONAL LINKS

Website & Portfolio

hartshorndev.com

GitHub

github.com/calebmhartshorn

LinkedIn

linkedin.com/in/caleb-hartshorn-82b739239