

Sina Fard

SOFTWARE ENGINEER & HORTICULTURIST

Bridging software automation and plant science to build efficient, scalable systems.

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ABOUT ME

A dedicated and adaptable professional holding a BSc in Agriculture and Horticultural Science (2:1) from the University of Reading, combined with software engineering expertise developed through intensive backend coursework at Boot.dev. Passionate about automating systems and controlled environment agriculture, with extensive hands-on experience in urban farming and hydroponics. Proven ability to succeed in fast-paced environments, work with cross-functional teams, and learn new technical disciplines quickly.

TECHNICAL SKILLS

PROGRAMMING & DEV

Go Python HTML5 / CSS3 SQL

SYSTEMS & TOOLS

Linux CLI Git & GitHub Script Automation Docker fundamentals

HORTICULTURE & CEA

Hydroponics Germination Growth Conditions Crop Nutrition

FEATURED PROJECTS

Bookbot

Go / Python

An automated document analysis tool that parses raw text volumes to extract metrics, word frequencies, and character analytics. Built as a command-line tool applying core file-handling practices and optimization techniques.

Asteroids Game

Python (Pygame)

A 2D arcade-style game utilizing object-oriented programming (OOP), vector mathematics for movements, physics-like collision detection, and a custom gameloop rendering environment.

WORK EXPERIENCE

Customer Service & Retail Assistant Jul 2026 – Present

Screwfix

- Provided efficient customer service and technical advice at the front desk and till, handling inquiries and processing sales in a fast-paced retail environment.
- Responsible for stock intake, shelf replenishment, and fulfilling Click & Collect orders accurately.
- Worked closely with the team to maintain standards and deliver a reliable service to local tradespeople and retail shoppers.

Events & Festival Assistant May 2025 – Dec 2025

Various Events (Glastonbury, Wembley, Kew Gardens)

- Handled ticketing, box office workflows, and public navigation support at major festivals.
- Successfully operated under high-pressure event timelines to resolve logistical challenges.

Plant Nursery Technician & Urban Farmer Aug 2023 – Sep 2024

Square Mile Farms, Paddington

- Managed growth parameters (EC, pH, lighting, and temp) for diverse hydroponic crops in a controlled environment.
- Conducted seedling germination and maintained nursery systems to guarantee steady crop cycles.
- Collaborated with team to optimize yield and introduce automated sensing tasks in growing zones.

Back of House Griller Jun 2023 – Sep 2024

Nando's, Watford

- Managed food assembly, grilling, and high-standard plating in a high-tempo restaurant setting.
- Coordinated closely with frontend servers to optimize kitchen turnaround and service speed.

General Shop Floor Assistant Jul 2021 – Nov 2021

Carpenders Park Garden Centre

- Maintained plant watering schedules, processed inventory pricing, and supported retail operations on the till.

EDUCATION & CREDENTIALS

BSc in Agriculture and Horticultural Science (2:1) 2021 – 2025

University of Reading

Key Modules: Agricultural Technology (Ethics, Application & Adoption), Global Sustainability, Crop Physiology and Nutrition, Experimental Design & Data Analysis.

Backend Software Engineering Path 2025 – 2026

Boot.dev

Rigorous project-driven curriculum covering algorithms, data structures, backend logic in Go/Python, Linux terminals, scripting automation, and database management.

References are available upon request.