

Sahen Shah

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Software Engineer with 5+ years of experience in software development, system integration, and live support within warehouse automation. Proven track record in delivering robust software solutions, debugging complex systems, and supporting mission-critical deployments. Seeking opportunities in full-stack development.

EDUCATION

University of Manchester, UK

BEng (Hons) Mechanical Engineering, 2018

CORE SKILLS AND TOOLS

Languages: C, Python, SQL, Javascript, HTML, CSS, Bash

Frameworks/Tools: Flask, React, Git, Solidworks, MATLAB, Docker

OS: Linux, Windows

Software: Blender, GanttProject, Microsoft Office, TestRail

Spoken languages: English (native), French and Gujarati (intermediate), Swahili (basic)

Other: CI/CD Basics, System Debugging & Troubleshooting

WORK EXPERIENCE

Digital Applications International (Dematic Software) Ltd, Manchester, UK

Intermediate Software Engineer, September 2021 – Present

- Deliver functional software changes, releases, and technical support throughout the Warehouse Management System (WMS) lifecycle for 2 large WMS systems working with over 10 materials handling subsystems
- Develop automation, backend and UI components, and dashboards for large-scale WMS's using C, HTML and Linux
- Support system and site go-lives and post-launch maintenance for high-profile retail clients
- Provide 24/7 on-call support for 3 WMS platforms, resolving live issues and preventing major downtime, saving clients hundreds of thousands in revenue
- Collaborate with internal and external teams across multiple WMS-integrated systems (e.g. Pouch Sortation), contributing to the development and implementation of solutions

Graduate Software Engineer, September 2018 – September 2021

- Led a team of 2-4 people remotely and conducted in person on-site commissioning of material handling systems, including MultiShuttle and put-to-light and conveyor sub systems for a major US omni channel distribution centre
- Conducted system-level software testing with PLC automation, performing integration testing and verification across complex warehousing operations using TestRail with Unit testing in C
- Resolved 200+ critical post-deployment faults via debugging, root cause analysis, and SQL-based data analysis
- Delivered on-site Black Friday support at two warehouses (US and solo in UK) under a hyper-care contract, ensuring rapid fault resolution during peak operations

SMC Corporation, Milton Keynes, UK

Mechanical Engineer, Intern, August 2016 - July 2017

- Performed mechanical testing and 3D modelling of 550+ actuator components
- Designed a cost-efficient valve mounting solution and self-taught Blender to create 3D training animations

PROJECTS & OPEN-SOURCE

[Chess Web App](#) – Python, Flask, JavaScript, Stockfish, HTML, CSS

Developed a full-stack chess application integrating the Stockfish engine for analysis and AI play. Features include real-time move evaluation, UI interaction, and Flask-based backend routing.

[Portfolio Website](#) – HTML, CSS, JavaScript

Created and deployed a responsive site to showcase technical projects and skills, serving as a live demo of front-end proficiency and professional branding.

[CS50x](#) (Harvard Online Course) – C, Python, JavaScript, HTML, CSS, Flask

Gained hands-on experience in algorithms, memory management, low-level programming, and web development.

[Hexapod Robot](#) – Python, Raspberry Pi

Built a robot controlled via PC, Android or iPhone, using a raspberry pi and python, complete with microphone and camera modules and 18 servo motors for leg actuation.