Matt Clark

Resume

Matthew R. Clark

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Profile

An experienced Systems QA Engineer with 5+ years of engineering within fortune 50 companies and fast-paced environments. Driven by the bleeding edge of the latest technologies and by a thirst for knowledge, currently seeking exciting and challenging new opportunities in the robotics space. Proven track record of driving software quality to the highest levels across a broad range of technologies. Passionate for working hands-on with both hardware and software, helping to bridge the gap between the physical and digital worlds.

Experience

Amazon Robotics, Amazon.com, Inc.

Sr. Software QA Engineer   *North Reading, MA – 04/2020 to 10/2021*

▸ SME and Lead QA Engineer for Android based application responsible for

managing all aspects of a large robotic fleet.

▸ Supported various components of the fulfillment platform. Coordinated with development to validate new features, write test plans to ensure adequate coverage, and to build / execute both functional and regression tests.

▸ Supported the prototyping and development of experimental workcells.

▸ Preformed in-depth troubleshooting of both software and hardware systems.

Sr. Software QA Engineer   *Seattle, WA – 04/2018 to 04/2020*

▸ Lead QA Engineer for RoboSort development team. Qualified a workcell now responsible for sorting most items inbound to Amazon fulfillment centers. Joined a team with 6 workcells deployed in beta, left the team with 300+ workcells deployed to production across US/EU/JP.

▸ Workcell SME – frequently provided advanced troubleshooting support to both engineering and customers.

▸ Coordinated with development to validate new workcell features and build an automation framework.

▸ Developed an extensive set of manual, integration, and regression test cases.

▸ Traveled both domestically and internationally, supporting customers with site deployments.

▸ Frequently facilitated tours and demonstrations across various warehouses and advanced robotic workcells.

Software QA Engineer   *North Reading, MA – 03/2017 to*
04/2018

▸ Developed a 24h/7d smoke-test environment for quickly detecting bugs in an always changing CI/CD environment.

▸ Created a web interface for scripting API calls to various micro-services, still deployed assisting engineers today.

▸ Discovered multiple exploits of physical hardware by using malicious barcodes.

Salesforce.com, Inc., Commerce Cloud

Software Engineer in Test   *Burlington, MA – 03/2015 to 03/2017*

▸Deployed a custom metrics storage solution fronting 10M+ data points per minute using AWS.

▸Deployed CheckMK across a fleet of 1k+ Linux nodes, configured host health monitors with alarms for abnormalities.

▸Developed test wrapper and framework to validate changes in web-tier components.

Education

Johnson and Wales University   Providence, RI

Bachelor of Science Electronics Engineering		*09/2011 to 02/2015*
Associate of Science Robotics Engineering		*09/2011 to 02/2014*

Skills

Languages
– Java, Python, Javascript, C++ (Embedded), MySQL, Web

Linux
– Terminal [bash, ssh, scp, ps, find, vi, grep], LibVirt, Docker, Apache

Robotics
– Various custom solutions, UR, Fanuc, ABB, Opex, Dematic

Embedded
– Arduino, ESP32, RaspberryPi, Pine64, FPGA

Protocols
– TCP/UDP (VLAN), RS232, SPI, I2C, CAN, ModBus, EtherNet/IP

Other

Server Racks
– Multiple server racks deployed across New England, providing various web services.

BarcodeAPI.org
– A tool developed for myself, now serves over 500k requests daily, worldwide.

Raising Quail
– One of my few *analog* hobbies, keeping quail is easy and rewarding with fresh eggs.

Everything Else
– RC Cars/Planes/Quads
– 100W CNC Laser
– 3D Printing
– Home Automation