Jagjeet Khalsa

452 Crestview Dr.
Vacaville, CA 95688

Email: jagjeet.khalsa@gmail.com
Mobile: +1.858.442.7418

Summary of Skills

- 1 year implementing/testing control systems for automation and manufacturing
- 2 years technically leading software quality assurance teams
- 5 years experience testing and automating testing of software systems
- 5 years designing and developing software systems
- 2 years managing small businesses

Portfolio

The Design and Development Adventures of Jagjeet…

Patents

Granted:

- Parental control method and apparatus for media service system

Pending:

- Method and system for providing a permissive auxiliary information user interface
- Method and system for evolving an avatar
- Method and system for recommending media to a user
- Game with incentivized behavior for media engagement
- User interface displaying scene dependent attributes

Professional Experience

SpiraTec, Vacaville, CA   *August 2019 – Present*
Consulting Engineer – Industrial Automation and IT Solutions
Tested and implemented control and monitoring systems for pharmaceutical customers according to GMP/GAMP guidelines. Documented system testing/processes based on customer needs. Introduced project management tools to improve productivity. Project highlights include:

- Contributed to new Honeywell DCS using Experion platform
  - Implemented phases, control modules and phase, map and unit blocks according to design specifications.
  - Verified software implementation, executed pre-factory acceptance and functional tests in virtual environment.
- Implemented review by exception manufacturing batch reports using OSIsoft RtReports.
  - Configured asset framework data sources and RtReport templates
  - Developed and executed acceptance test protocols for report implementation in production environment.
  - Wrote Python tools to automate data export for documentation reducing deviations.

Roar Feminist, Vacaville, CA   *January 2017 – April 2018*
Managing Editor
Co-launched online feminist magazine. Worked with team of editors to develop and expand content including authoring political satire pieces. Responsible for production and copy editing, and web development (WordPress, PHP, Twig, JavaScript, CSS).

Sayulita Suites, Sayulita, Nayarit   *April 2016 – November 2016*
Property Manager
Managed suite of 5 vacation rentals. Responsible for guest relations, bookings, accounting, and maintenance tasks. Worked with guests and employees in English and Spanish (conversational).

Paraiso Yoga, Sayulita, Nayarit   *November 2015 – March 2016*
Manager
Managed yoga center including studio, massage space, bungalows, and small store. Led staff of eight employees and three volunteers. Oversaw day-to-day operations including scheduling, accounting, inventory, housekeeping and web and social media presence. Worked with guests and employees in English and Spanish (conversational).

ServiceNow, San Diego CA   *June 2014 – September 2015*
Senior Software Engineer – Quality Assurance
Worked with Founder/Chief Product Officer Fred Luddy's team developing next generation user interface for the ServiceNow platform. Led quality team developing new tests and managing existing tests for product releases. Contributed new feature ideas and worked with the team to incorporate them into the platform.

Verimatrix, San Diego CA   *May 2013 – May 2014*
Quality Assurance Developer
Developed automated testing and test tools (Ruby, Java, Android) for video content security platform. Investigated feasibility of automating new or existing test cases. Contributed to road map of new automated test features.
- Simplified UX and added configuration file support for existing Android test application (Java, XML)
- Automated video player testing (Ruby, JavaScript, Selenium) across Windows and Mac platforms and across browsers saving large amounts of manual test time
- Automated existing manual SNMP test suite enabling remote server test management including managing remote processes and editing configuration files (Ruby)
- Developed code generation tool (Ruby) for importing test cases from test case management system (QaTraq)

RapDevPro, San Diego CA   *October 2012 – December 2013*
Software Consultant
Managed customer releases for iPhone and Android applications (XCode, Eclipse) including submitting applications to the Apple app store. Contributed software updates to existing applications (Objective-C, Java, HTML, JavaScript, CSS). Provided technical recommendations and support to existing customers.

M-GO/Technicolor San Diego CA   *January 2012 – March 2013*
Senior Engineer, Quality Assurance
Led frontend black and white box testing for MGO video streaming application (now FandangoNow) across consumer electronic devices including TVs, tablets, mobile phones.
- Established common test guidelines for all device platforms (RallyDev, Test Rail)
- Evaluated new test tools and created best practices for existing tools
- Collaborated with product and development teams to fine tune product requirements including submitting over 20 new product features
- Invented new product features focused on improving user experience including submitting for several patents

- Mentored new and existing engineers in best practices and interviewed new engineering candidates

Chumby Industries Inc, San Diego CA   *February 2010 – December 2011*
Lead Technical Engineer, Quality Assurance
Led quality team for web-based application platform testing of TVs, tablets, mobile phones and dedicated Chumby devices. Integrated new processes and tools to increase productivity. Advised product and development teams providing fresh ideas to improve overall user experience.
- Oversaw quality and release of over 1500 small applications (Flash/ActionScript).
- Developed tools to improve release process including versioning (Perl, SQL, shell scripting)
- Contributed to server side web portal testing for device and application management including high level design of automation test tool (Perl)
- Managed test engineers establishing requirements and deliverables
- Developed and executed test plans including black and white box testing
- Mentored new/existing engineers in best practices

The Rankin-Group, San Diego CA   *September 2008 – May 2010*
Independent Software Consultant
Provided technical support for US based customers for KUKA products enabling Windows and RTOS systems to run concurrently. Responsible for web design and web based marketing.

Software & Tools
Automation & Manufacturing Tools
Honeywell Control Builder, Honeywell Experion Batch Manager, OSIsoft PI (RtReports/System Explorer/Vision)

Programming Languages & Technologies
Angular, Bash, Bootstrap, C, C++, C#, CSS, HTML, Java , JavaScript, JSON, Less, LISP, Objective-C, Perl, PHP, Python, React, Ruby, SCSS, SQL, Timber/Twig, UPnP, WordPress

Development Frameworks & Tools
Android Studio, Atom, Eclipse, Git, Gulp, Jupyter Lab/Notebook, MS Visual Studio, Node, Npm, RallyDev, SoapUI, SourceTree, Sublime, SVN, Vi/Vim, VS Code, Webpack, XCode, Yarn

Test Frameworks & Tools
Bugzilla, Chai, Cypress, Fiddler, Jasmine, Jest, Mocha, RallyDev, Ruby Test:Unit, Selenium, SoapUI, Testopia, TestRail, Wireshark

Education
University of California Davis, Davis, CA   *September 1997 – December 2000*
- Bachelor of Science, Computer Science & Engineering
- Minor, Philosophy

Interests
Currently focused on writing and illustrating children's books, designing t-shirts, magnets, and stickers and working on a yoga themed card game. Activities include traveling, indoor rock climbing, yoga, and gardening.