

# Shardul Bhakta

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Github: <https://github.com/shardul-bhakta> | Portfolio: <https://shardul-bhakta.github.io/>

## Summary:

Passionate, multilingual and multicultural Software Engineer with 5+ years of industry experience in various emerging technologies. I have done software development in domains like – **tools development, robot automation, test automation, data analysis, git internals, SCM, Build and release infrastructure, DevOps.**

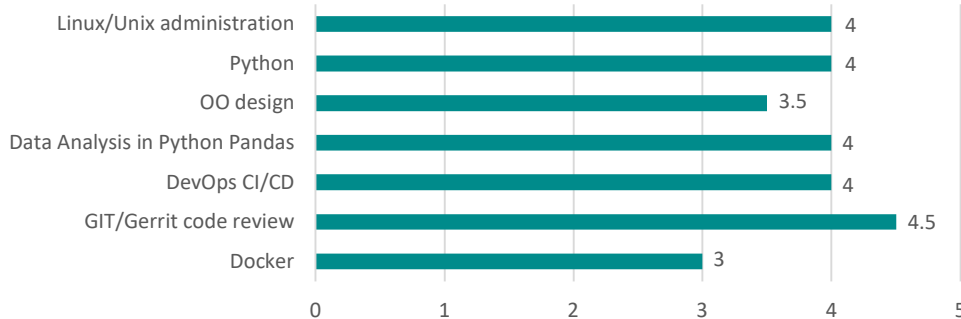
Seeking to advance my career with your company in Portland OR.

## Education:

**Master of Science, Computer Science** - San Diego State University, San Diego CA. GPA: 3.6/4 (Aug 2011 - Aug 2014)

**Bachelor of Engineering, Computer Engineering** - University of Pune, Pune India. GPA: 3.33/4 (Aug 2006 - May 2010)

## Skills:



## Professional Experience:

### Software Validation Test Engineer @ Intel Corporation, Hillsboro OR [June 2016 – Present]

- Part of **Test Automation/Tools Development Team** in the 5G domain (5G is successor of 4G LTE).
- Researched, designed and programmed Software Tools and result data analysis tools in 5G domains like Cloud, VR/AR, RealSense (tracking/depth cameras), autonomous car prototypes and 5G equipment telemetry.
- Extensive design and tools development in **Object Oriented Python, Python Pandas, socket and TCP/IP programming.**
- **Received 2 Divisional Recognition Awards** (Q3 2017 & Q4 2019) for driving critical projects from inception to completion.
- Replaced ~500 hours of manual work with reliable automation tools for stakeholders.
- Created tools to validate Edge Computing Cloud solutions using 5G infrastructure. (**OO Python, socket programming**)
- Designed & programmed robust APIs to control Robot Arms to simulate AR/VR user movements. (**OO Python, socket programming**)
- Piloted solutions to calculate Motion to Photon latency for 5G prototypes in AR/VR ecosystem. (**OO Python, Robot automation, Android Debug Bridge, Image processing**)
- Participated in designing tools to validate autonomous car prototypes showcased in 2018 Winter Olympics in S. Korea. (**OO Python**)
- Experience in hosting all software tools on Jenkins for an end to end SCM solution. (**Shell scripting**)
- Hands on experience with docker containers on Harbor.
- Worked on a Report generation automation tool using **Jinja2/Python/JavaScript/CSS**

### Software Engineer @ Intel Corporation, Hillsboro OR [Sept 2014 – June 2016]

- Part of **Android DevOps and Integration team** supporting Android code base for tablets with Intel chips.
- Received **Divisional Recognition Award** for delivering Android Lollipop updates to 3000+ customers before deadline (Q4 2014)
- Reduced manual work of 6-8 hours by automation in **Google over the air (GOTA)** infrastructure (**python, shell scripts, Selenium**)
- **GOTA Team Lead** and Point of Contact with Google since Q1 2015.
- **Automation in Build and Release infrastructure** for all Android platforms/products in **GIT** environment
- **Created an automation project** to upload and provide GPL licenses to external OEMs for Intel Open Source (01.org) (**Jenkins, shell script**).

### Automation/Release Engineer (Temp position) @ Qualcomm Innovation Center, San Diego CA [May 2014 – Aug 2014]

- Part of **SnapDragon SDK ecosystem** team.
- Worked on **designing a new Continuous Integration system** for SDK deployment.
- Use of **data structures** to **automate, maintain and deliver** daily builds for SDK developers on Jenkins.

### Software Engineering Intern @ Broadcom Corp, San Diego CA [Apr 2013 – Apr 2014]

- Part of **Software Configuration Management** team.
- **Tool Development** in **GIT, Gerrit** internals and **Build and Release** infrastructure
- Use of data structures to design, create and maintain GIT internal tools for developers in **Perl and Shell scripting.**
- Worked on creation and maintenance of critical Cron jobs in **UNIX.**