**HARSH DHOLAKIA**

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**EDUCATION**

**Texas A&M University, Kingsville**  *May 2019*

Master of Science in Computer Science (Software Engineering) | **CGPA: 4.0**

**Punjab Technical University, India** *April 2017*

Bachelor of Technology in Computer Science & Engineering | **CGPA: 3.5**

**TECHNICAL SKILLS**

**Back-end languages:** Java (Proficient), Groovy, PHP, Python, SQL, JavaScript, C/C++

**Front-end languages:** HTML, CSS, JavaScript, XML

**Mobile Application:** Android Application Development (Java)

**Tools:** Git, Jira, Bitbucket, Bash, Android Studio, IntelliJ Idea**,** PHPMyAdmin, FileMaker, ArchivesSpace, OpenRefine, Jupyter, DB Browser SQLite, Liquibase, Docker, GitLab, GitBash, Postman, OpenShift, Couchbase, ServiceNow

**RELEVANT COURSEWORK**

**Graduate Level:** Object-Oriented Design & Programming, Software Engineering, Computer Communication Networks, Compiler Design, Real-Time Systems, Database Management Systems, Mobile Cloud Computing, Mobile Application Programming (Android), Operating Systems, Cloud Computing (AWS)

**Undergraduate Level:** Data Structures, Design & Analysis of Algorithms, Artificial Intelligence, Cloud Computing, Theory of Computation, Operating Systems, Web Technologies, Computer Graphics

**Udemy:** Complete Java MasterClass, The Web Developer Bootcamp, Postman

**EXPERIENCE**

**Software Engineer at TCS (Client: USAA)** *Jan. 2020 – March 2021*

* Test-driven development of REST/SOAP services using Java/J2EE with Spring Boot microservices framework
* Working collaboratively in agile (scrum), CI/CD pipeline, automated tests, OpenShift & Docker container frameworks
* Resolves complex production issues with by troubleshooting complex applications and systems independently
* Design, develop, code, and test complex technical solutions collaborating with senior engineers
* Code testing procedures, such as Unit Testing, via Groovy as well as Functional testing & Integration testing
* Experience with the debugging and profiling tools included in IntelliJ Idea platform
* Deploying code changes into production, researching for bugs/performance improvements in the form of Spikes

**Software Engineer Initial Learning Program at TCS (Bootcamp)** *Nov. 2019 – March. 2021*

* Data Engineer Bootcamp for Big Data with Hadoop and Spark, part of Initial Learning Program
* Python 3 Programming using Jupyter notebook, NumPy and pandas libraries, MySQL, Scala

**Software Engineer Co-Op at Advanced Micro Devices, Inc. (AMD)** *Jan. 2019 – May 2019*

* Development and maintenance of PHP web application used to send special manufacturing requests to OSATs
* Participating in Agile development activities including stand-ups, work alongside DevOps team to setup new repos
* Contribute to documentation of new features using Confluence, deliver releases to cross-functional organization

**South Texas Archives Assistant at Texas A&M University - Kingsville**  *Feb. 2018 - Dec. 2018*

* Responsible for online digital archival resources, migration of database using python script, and preservation of digital collections. Creating documents digital records with correct preservation metadata per to national standards

**PROJECTS**

**Modernized SMR Development** *May 2019*

* Setup a multi containerized development environment to mimic the production environment using Docker Compose
* Use Linux to set up a persistent containerised development environment using docker and MySQL database image

**Test Case Generator** *May 2018*

* Developed a test case generator using Java to generate independent paths and def-usage paths based on the existing source code
* To calculate the McCabe cyclomatic complexity of a method in the source code

**Android Application Remote Presentation** *Dec. 2016*

* Developed an Android application to synchronize ppt actions on mobile & PC using a remote server with Wifi-Direct
* Performed functions like autodetection of server, remote shutdown, free hand drawing using Canvas API
* Developed an auxiliary java application to support the android application and a presentation editing tool

**Real-Time Chat Application** *May 2018*

* Developed a chat application in Java to communicate between two PC’s using multi-threaded programming
* Worked on networking and messaging protocols using object-oriented design

**Android Application AutoCars**  *May 2017*

* Lead a three-person team in a collaborative effort to incorporate user-friendly vehicular detailed application to cater queries like details of different vehicle models along with their dealers and service centre information

**Computer Application Camera ++** *July 2015*

* Lead a three-person team to develop a Camera & Video Editing Application using java to access webcam libraries
* Used techniques like FFmpeg method to enable filters and effects on all connected webcam in real time

**WORKSHOPS**

**Data Carpentry Workshop on Data Analysis and Visualization** *September 2018*

* Examining numbers and data cleaning with OpenRefine, Indexing and Slicing Data Frames using Python in Jupyter
* Combining frames with pandas, plotting with ggplot, aggregating data, filtering and ordering SQL query results

**PUBLICATIONS -** 2019 Fifth Conference on Mobile and Security Services (MobiSecServ)

* [When not to Offload? Analyzing Offload Feasibility in Mobile Cloud Computing](https://ieeexplore.ieee.org/document/8686724) *March 2019*