# **Ivkaran Singh**

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# **WORK EXPERIENCE**

# ***DevOps Engineer***August 2016 – Present

# Fannie Mae**,** Reston, VA

# Saved many man hours by writing Groovyscripts for Jenkins jobs to automate tasks such as creating a new release, adding the plugins to jobs, and listing specific set of jobs

# Added a custom iCart collector and modified other collectors such as Jenkins, SonarQube, and JIRA in Hygieia, a delivery pipeline dashboard, using Java and AngularJS

# Revamped the Code Quality Assurance website from AngularJS to Angular 4 within a month including updating the NodeJS/ExpressJS backend

# Developed BDDtests and step definitions using Cucumber/Selenium and generated report through Jenkins

# Fetched SonarQube data from its API using Java, parsed into a CSV file, and scheduled a task to send the data to a shared directory

# Wrote a Puppet module along with RSpec testing of the module, managing scripts and ensuring the content is maintained between all the agents

# Integrated Jenkins and Nexus to UrbanCode Deploy, where artifacts from Jenkins build is deployed along with the event data

# ***Web Developer Intern***December 2014 – February 2015

# TalkLocal, College Park, MD

# Built “Sikh Temple Locator” using HTML and PHP

# Scraped data from a website using import.iotool, wrote Java code to collect data by sending the inputs to websites using Selenium library, and stored data into MySQL database

# **PERSONAL PROJECTS**

# **Vismaad** (MongoDB, ExpressJS, NodeJS, Angular 4, BootstrapJS, Java/Android): January 2017 - Present

# Developing a Spotify-like mobile app which will fetch the mp3 files stored in AWS S3

# Wrote a server-side application using NodeJS/ExpressJS and deployed to AWS EC2 instance

# Created a form using Angular 4 to submit mp3 files metadata to send the data to MongoDB

# Implemented a NodeJS script which downloads the mp3 files, cuts the files using ffmpeg library, and uploads to AWS S3

# **Gurbani Ujagar** (Java/Android, Objective-C/iOS): April 2012 – January 2016

# Developed a mobile app that shows pages in HTML from the Sikh Holy Book

# Integrated other features such as searching for a line from over 60,000 lines, saving pages into a SQLite database, and displaying daily inspiration

# Exceeded 50,000 downloads in Google Play and 10,000 downloads in App Store

# **Gurbani Kosh** (Java/Android): June 2013 – December 2013

# Developed a Sikh Holy Book dictionary app that has over 16,000 definitions and synonyms

# Exceeded 30,000 downloads in Google Play

# **ACADEMIC PROJECTS**

# **MeeshQuest** (Java, XML): Fall 2014

# Developed a custom MapQuest program using Quadtrees that maps cities, roads, computes shortest path between the cities using Dijkstra’s algorithm, ranges the cities/road, and finds the nearest city/road within a given radius

# Parsed the data from an XML file in Java using XML DOM and generated the results in XML format

# **Modular Interconnected Language Editor** (JavaScript, MySQL, XML): Spring 2015

# Contributed to the development of a web application in a team of 10 that provided services to users to design modules easily by drag-and-drop on modern browsers

# Described the structure of an XML document by writing an XML Schema

# Set up the MySQL database by creating relevant entities, relationships between them, and detailing the relevant attributes

# Wrote scripts on fetching an XML file from the database, saving the current XML state, and converting XML to JSON

# **TECHNICAL SKILLS**

# **Languages:** Java, JavaScript/TypeScript, Ruby, C

# **Databases:** MySQL, Oracle SQL, MongoDB

# **Operating Systems:** Windows, MAC OS X, Linux, UNIX

# **Tools:** WebStorm, Eclipse, IntelliJ, Bitbucket, Stash, VI Editor, Git, SVN, Maven, Junit

# **EDUCATION**

# Bachelor of Science, Computer Science August 2011 – May 2016

# University of Maryland, College Park, MD