

KOMALJIT SINGH

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WORK EXPERIENCE

Full Stack Developer

JAN 2016 – DEC 2016

Webcom Systems Ltd, Chandigarh

- Built RESTful APIs and scalable backend features in Python (Django framework)
- Developed large and interactive single-page web app using JavaScript ES6 and ReactJS/Redux
- Optimized SQL queries and database schemas to improve data extraction speed by 2x

Software Intern

MAY 2014 – JUL 2014

Webcom Systems Ltd, Chandigarh

- Performed verification, validation, and performance testing of the web applications as per project requirements
- Improved performance up to a significant level by code refactoring and optimization

Relevant Projects

San Jose State University

Dropbox Prototype- SJSU

MAR 2018

- Dropbox application that provides file saving, sharing, create folder, share folder, create a group, and add member functionalities
- Successfully tested the system's loading and capacity performance with JMeter
- Tech Stack- Django, React, Redux, MySQL, CSS, HTML, AWS, JMeter

Kayak Prototype- SJSU

JAN 2018 - FEB 2018

- Implemented hotel, flight, and car search and booking functionality along with support for vendor APIs
- Developed novel techniques to do graphical log analysis
- Scaled the reservation services on AWS platform to handle up to thousand requests per sec
- Tech Stack- NodeJS, React, Redux, MongoDB, Redis Caching, JMeter, AWS

Detection System of Slow Loris DDOS attack- SJSU

SEP 2017 - OCT 2017

- Designed a Slow Loris attack model for a website hosted on apache2 server to conduct HTTP request attack
- Detection system creates logs that help admin to take appropriate action to mitigate the attack
- Tech Stack- Python, Flask, Apache2 server, Kali Linux etc.

Quick Shop Store- SJSU

JUN 2017 - JUL 2017

- Created a user-friendly web application for users to do online grocery shopping by making Searching, Viewing, and Selecting an item very easy.
- Admin can add, delete or edit items through API rather than manually making changes in the database
- Tech Stack- Python, HTML, Bootstrap, MySQL, CSS

Travel Guide

MAR 2017

- Built a car ride route price estimator and comparator application to find the economical path for a ride
- Tech Stack- Python, Uber API, HTML5, CSS3, JavaScript

EDUCATION

Master of Science, Computer Networks

2017 - 2018

San Jose State University, San Jose, California

Bachelor of Technology, Electronics and Communication

2016

Guru Nanak Dev University, India

SKILLS

Languages: Python, Java, JavaScript, NodeJS

Database: MySQL, MongoDB, Oracle, Redis, SQLite

Frameworks: Flask, Django, Express.js, Passport.js

Front End: React, Redux, HTML5, Bootstrap, CSS3,

JSON, REST

Cloud Services: AWS, Docker

Operating Systems: Windows, Linux

Tools- Git, Visual studio code, WebStorm, PyCharm, JMeter

Networking: OSI model, TCP/IP Stack