

Akhil Balaji

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EDUCATION

- **Birla Institute of Technology and Science**
Bachelor of Engineering(Honors) in Computer Science
Master of Science(Honors) in Mathematics

Goa, India
Aug. 2012 – July. 2017

PROGRAMMING SKILLS

- **Languages:** Java, Python, C/C++, Shell
- **Technologies:** Redis, Kafka, Cassandra, Kubernetes

EXPERIENCE

- **Groupon** Bangalore, IN
Software Development Engineer - Backend *Arpil 2019 - Present*
 - **Inbox Management:** Developed and maintained a high throughput push marketing service used for sending more than 500M emails, push and in-app notifications. Implemented key business features such as geolocation based deal recommendations in email. Led the development of new customer emails based on website search activity and cart status.
 - **Rested user campaign support :** Designed and implemented the backend of Groupons inactive user targeting program to enable marketing emails to be sent to low engagement users. Implemented using Java, Redis, Teradata
 - **Mailman:** Developed and implemented multiple enhancements in the email aggregator service responsible for sending transactional emails. Added support for AMC movie deals with realtime QR code generation and post-purchase appointment booking.
- **Dell EMC** Bangalore, IN
Software Engineer *July 2017 - April 2019*
 - **Non-Disruptive Insertion:** Designed a host level orchestrator to allow the seamless insertion of a virtualized storage layer in a SAN environment. Implemented a Linux kernel module to allow the redirection of SCSI commands from a source device to a target device. Developed a methodology for inserting virtualized storage in an ESXi clustered environment.
 - **VPLEX Restv2:** Redesigned, developed and implemented REST APIs to allow managing a VPLEX appliance in Java. Developed integration test suites in Python to help in end-to-end testing.
 - **eNAS Performance Test Suite:** Developed an automation testing framework for a container based NAS solution in Python using Paramiko. Enabled additional NAS functional testing and produced metrics which allowed tracking performance across internal releases.
- **Birla Institute of Technology and Science** Goa, IN
Student *Aug 2017 - July 2019*
 - **Image Restoration:** Implemented an alternative approach to estimate the point spread function of a distorted image in Matlab which could be used to restore images blurred due to linear motion. Developed a scoring system to rank restored images by the level of restoration.
 - **StackOverflow Tag Predictor:** Trained and tested a map-reduce based SVM classifier on a stack overflow dataset which could be used to classify a question based on tags. Enhanced the classifiers accuracy using dataset feature selection techniques.
 - **Optimizing Support Vector Machines for Multi-class Classification:** Proposed a methodology to help improve accuracy when classifying multi-class data using SVM which focused on SVM kernel parameter optimizations.

ACCOMPLISHMENTS

- **Inspire Scholar 2012 - 2016:** Scholarship by the Department of Science and Technology India awarded to students pursuing science intensive programs.
- **Groupon Star Quarterly Award:** Awarded twice for teamwork and leadership.
- **Excellance@Dell:** Received the bronze award for technical contributions.