

# Amar Chandole

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## EDUCATION

### University of California, Los Angeles Masters in Computer Science

September 2016 - Present

Current Coursework - Advanced Computer Networks, Advanced Computer Architecture, Network Protocol and Systems Software Design for Wireless and Mobile

### Pune Institute of Computer Technology, Pune - GPA 3.8/4.0 Bachelors in Information Technology

August 2012 - June 2016

Relevant Coursework - Data Structures, Design & Analysis of Algorithms, Operating Systems, Computer Networks, System Programming,

## EXPERIENCE

### Ryussi Technologies, Pune, India — Intern

June 2016 - August 2016

Developed a 3-in-1 Docker volume plugin (for ZFS Pools, SMB shares, NFS shares) that enables users to mount anywhere on the host to get persistent storage, even if the Docker volume is removed.

### Soft Corner, Pune, India — Intern

November 2014 - December 2014

Developed a generic form generator (much like Google forms). Used Python, Django Framework, jQuery and MongoDB for the same.

## PROJECTS

### Content-based Storage Mode in Btrfs — filesystems

Designed and implemented a system for the Btrfs filesystem which enables storage and retrieval of files based on the hash of their content. Hash vs inode\_no mapping was used. **Enhanced the file retrieval speed by about 30%** and introduced **inherent file-level deduplication** to save storage space.

### Result Analyzer — databases, regex

Developed a software that uses regex to intelligently parse various fields from the Pune University examination results pdf document to populate the database. Also provided comprehensive analysis of the results.

### HTTP Log and TCP/IP Data Summarization and Analysis — network log analysis

Developed a comprehensive analyzer for processing and summarization of HTTP logs & packet capture files.

### e-Booking application for Flight-Booking — web, graphs

Developed a web app using LAMP stack. To generate meaningful suggestions of connected flights, developed a suggester module implementing graph-based traversal.

## SKILLS

- C, C++, Python, Java
- Linux kernel development
- Filesystem architecture
- Web, SQL, MongoDB
- Docker, Hadoop, Django
- Photography
- Singing, Writing
- Music Composition

## AWARDS

### Best Project Award

**4 awards** at 3 nationally contested project competitions for the project 'Content-based storage mode in Btrfs'

### Best Innovation Award

For the project 'Content - based storage mode in Btrfs' out of over 200 projects at INC, a national level project competition.

### Best Sci-Fi Idea Award

**V2R: Vibes to reality**, a hypothetical futuristic communication system based on brain waves.

## LEADERSHIP EXPERIENCE

### President, PICT Art Circle

Led over 100 theater enthusiasts to multiple prestigious theater competition prizes.

**Founding Photography Coordinator** at the startup magazine **Pictorially Speaking**. Successfully built the team and established a large user base.