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AMAR CHANDOLE

EDUCATION

M.S. in Computer Science - University of California, Los Angeles **Sep 2016 – Dec 2017** (expected)
Coursework: Data Structures, Design & Analysis of Algorithms, Operating Systems, Computer Networks, Database Management Systems, Distributed Systems, System Programming

B.E. in Computer Science (IT) - Pune Institute of Computer Technology (GPA: 3.8/4.0) **Aug 2012 - Jun 2016**
Coursework: Data Structures, Design & Analysis of Algorithms, Operating Systems, Computer Networks, Database Management Systems, Distributed Systems, System Programming

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java
Frameworks and Tools: Docker, Hadoop, Django, Git
Web Technologies: HTML5, CSS, JavaScript, jQuery, PHP
Databases: MySQL, PostgreSQL, MongoDB, Cassandra
Specialization Areas: Networking, Filesystem Architecture, Linux kernel/userspace development, Operating Systems

WORK EXPERIENCE

Ryussi Technologies, Pune *Jun 2016 – Aug 2016*
Software Intern **(Docker, Go)**
- Developed a 3-in-1 Docker Engine volume plugin (for ZFS Pools, SMB shares, NFS shares)
- Enables users to mount anywhere on the host to get persistent storage, even if the Docker volume is removed

Soft Corner, Pune *Nov 2014 – Dec 2014*
Software Intern **(Django, MongoDB, JavaScript, jQuery, HTML5, CSS)**
- Developed a generic form generator web application (like Google Forms)

PROJECTS

CapProbe over MPTCP *Ongoing*
- Developing a scheduler for Multipath TCP using CapProbe to estimate path capacities and select best possible path **(C, Bash)**

Bit rate as a measure for MPTCP Path Manager *Ongoing*
- Modifying default MPTCP Path Manager so as to select an interface based on its signal strength and bit rate **(C++, Bash)**

Content-based Storage Mode in Btrfs *Sep 2015 – Feb 2016*
- Developed a system for Btrfs filesystem that enables storage & retrieval based on hash of the file contents **(C, Bash)**
- Enhanced file retrieval speed by **about 30%** and Introduced **inherent file-level deduplication** to save storage space

REST Library for content-based storage in Btrfs *Feb 2016*
- Developed a library to interface the REST API calls to the content-based storage in Btrfs. **(Python)**

Benchmarking Tool for content-based filesystems *Feb 2016*
- Developed a tool that assists in testing I/O performance of filesystems working on content-based storage principle **(C, Bash)**

HTTP Log & TCP/IP Data Summarization and Analysis *May 2015 – Jun 2015*
- Developed separate comprehensive analyzers for processing & analyzing HTTP logs, .pcap files **(Java, Python, D3, jQuery)**

Airline booking application *Aug 2015 – Sep 2015*
- Developed a web app for to plan and book air tickets for multiple airlines through a common platform **(LAMP Stack)**
- Added best route suggestions based on graph-based traversal of the connected airports.

Result Analyzer *Aug 2014 – Oct 2014*
- Developed a regex-based parser that scraped exam result PDFs to populate the database **(Java, MongoDB, Cassandra)**

AWARDS

Best Project Award - 5 awards at 3 nationally contested project competitions for the project 'Content-based storage mode in Btrfs' including *Best Innovation Award*.

Best Sci-Fi Idea Award: *V2R – human Vibes to Reality*, a hypothetical futuristic communication system based on brain waves.