

PRASHANT PATIL

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EDUCATION

Indian Institute of Technology Ropar

July 2012 - May 2016

B.Tech. in Computer Science & Engineering

Courses: Data Structures and Algorithms, Contemporary Computing Platforms, Operating Systems, Computer Architecture, Computer Networks, Database Management Systems, Computer Vision.

EXPERIENCE

Druva

September 2018 - Present

Staff Software Engineer

- Working to develop a SaaS solution for enterprise-scale data management of NAS and FileServer storage.
- Responsible for the design and development of Backup agents to support full and incremental backups on AWS.
- Developed a filesystem Scanner in Golang with support for telemetry.
- Developed a Pipeline for data upload on cloud with ability to auto-tune for optimal performance and resource consumption.
- Developed an in-memory cloud simulating Druva's cloud storage built on AWS providing support for full and incremental backups. This was done to facilitate the functional testing of backup and restore components.
- Created the build process infrastructure for Windows and Linux using services from Gitlab, Jenkins, and Docker.
- Responsible for handling customer escalations, product enhancements, and adding new features based on customers' requirements.

HCL Technologies

October 2016 - September 2018

Software Engineer

- Worked to develop an operating system for the HPC vector processor. This OS runs as a user-space daemon on Linux and manages hardware resources of the vector engine.
- Responsible for the design and implementation of the process management module which involved the creation, scheduling, and deletion of a process on VE.
- Implemented system calls and context switching, thereby providing support for multiprocess and multithreaded user applications.
- Developed test suite for functional and system testing similar to LTP.
- Referenced the Linux Kernel (Scheduler, System calls, Process life cycle, Synchronization) to implement new features.

TopperLearning, Network 18

May - July 2015

Software Engineer Intern

- Worked on the website www.topperlearning.com which is built upon CakePHP MVC framework.
- Designed and implemented dynamic question generation system for Maths subject.
- Set up RabbitMQ queuing system in the server to facilitate adding data asynchronously to the database. This was done prior, to add the notification feature on the website.

TECHNICAL SKILLS

- Experienced in **C, C++, Golang**. Familiar with **JAVA, Python, MATLAB**
- Knowledge of **System Programming, Multi-threading, Micro-services, Scaling, Linux Kernel, OOPs, Design Patterns, Scripting**
- Familiar with **SQL, NoSQL, AWS DynamoDB, REST APIs, MVC, CakePHP, RabbitMQ**
- User of **Git, Gitlab, Docker, Jenkins** for Project infrastructure, and **GDB** for debugging

ABOUT ME

- Software Engineer with 3+ years of experience in designing and developing highly scalable, multi-threaded solutions with good knowledge of Linux operating system.
- Experienced in enhancing performance and optimizing resource consumption of applications.
- Increased Druva's NAS backup performance up to 4x while reducing the memory consumption by 30%.
- Good knowledge of design patterns and OOPs along with data structures and algorithms.
- Experienced in Agile development planning.
- Received All-Stars Award for contribution towards Druva's Phoenix product.
- Cleared IIT JEE 2012 securing 99+ percentile.
- Qualified for Google Code Jam 2014 Round B (III level).
- Aim is to get hands-on experience of fast, scalable technologies, and develop optimized, bug-free software.