SURAJ CHAFLE

Graduate Student at Illinois Institute of Technology, Chicago

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EDUCATION

MS in Computer Science

Illinois Institute of Technology, Chicago

Sep 2014 - Dec 2016 | Chicago

GPA **3.57** / 4.00

BTech in Electronics & Telecom.

College of Engineering, Pune

Aug 2008 - June 2012 | Pune

GPA **7.70** / 10.0

WORK EXPERIENCE

C Programmer - Smart Grid Research

Illinois Institute Of Technology

May 2016 - Oct 2016 | Chicago

Automated C code generation for Power System models in Python. Optimized the generated code for performance.

Software Design Engineer

Imagination Technologies

Feb 2015 - Dec 2015 | Pune

- Developed a white-box test framework in C++ for Video Driver API testing which helped in earlier bug detection.
- Developed a test framework in Python with SOAP, Django and MySQL which greatly simplified automation testing.

Software Engineer

Robert Bosch

June 2012 - June 2012 | Bangalore

- Developed tools to automate building of Navigation SDKs using CMake, Perl and Shell
- Automated testing of navigation software using Perl and Shell.

RESEARCH EXPERIENCE

Multiprogramming with Nautilus

Illinois Institute of Technology

Working with Prof. Kyle Hale to explore possibility of achieving multi-programming without having to implement heavy weight process sub-system for Nautilus Aero-kernel by using Intel's virtualization features.

TOP SKILLS

C++, Python, Java, C, Shell, MySQL, Git, Gdb, CMake, Spark

FAVORITE PROJECTS

Benchmarking AWS instance

Developed a tool in C to benchmark CPU, memory and disk performance of an AWS instance. Compared results against standard benchmarking tool viz. linpack, iozone & stream.

Distributed Job Scheduling

Developed a job scheduler in Python using AWS SQS & dynamoDB mimicking Animoto video creator. S3 was used to store generated videos.

Travelogue- Django App

http://goo.gl/nXL9p3

A web app to maintain past travel records. Designed the database, front-end, APIs for future development and user-interface.

PUBLICATIONS

ACM Supercomputing Conference 2016

Optimzing search in un-sharded large scale distributed system

Nov 2016 | https://goo.gl/902eK6

We presented a distributed search framework that does not rely on sharding and can be applied to a range of distributed storage models.

COMPETITIONS

NGA's Expedition Hackathon

AT&T Smart City Hackathon