Saksham Sharma

Computer Science and Engineering Bachelor of Technology Indian Institute of Technology Kanpur

EXPERIENCE AND PROJECTS

Research Intern

May'16-July-16

Max Plank Institute for Software Systems. Germany

- Developed and evaluated a Scala tool to rewrite mathematical expressions to increase accuracy using a genetic algorithm
- Obtained successful results, improving expression error by 50%, useful for scientific and embedded applications

Full Stack Web Developer May'15-Present Internship under DoFA IIT Kanpur

- Adjudged as one of the best interns as a freshman
- Implemented various features in a large scale polyglot web application with an extensive technology stack, in a team setup
- Continue coding, as a full-stack developer; managing the search component in Node.js, Scala, ElasticSearch, Angular, TypeScript

Coordinator, Programming Club Apr'16-Present

- Rewrote, deployed, populated club website pclub.in
- Organized Freshers' Programming Contest, Linux install fest, conducted programming workshops

Software Corner Manager Dec'16-Mar'16 Techkriti 2016, IIT Kanpur

- Made an esoteric language for a national competition based on x86 assembly
- Made online judge for High Performance Computing contest on the Param supercomputer

Member, Team Robocon Oct'14-Mar'15 ABU Robocon '15. Dr. Bhaskardas Gupta

- Worked on 2 semi-autonomous full-size badminton playing bots using Image-processing, Kinect and Stereo Vision to track and predict shuttle path
- Finished 11th among 85 participating teams on a National Level

Winning team twice, Microsoft code.fun.do

- Developed an app to parse expressions and plot implicit mathematical function graphs
- National 5th in Finals Coding milestone. Platform to learn programming, on our online judge

MISCELLANEOUS

- Blog about Linux, programming etc here
- Contribute to **Open Source** on Github
- Administer servers in IIT Kanpur; deploying, automating services for campus community
- Microsoft Build The Shield, National 10th in the final round of CTF



sakshams@(cse.)iitk.ac.in

acehack.org
sakshamsharma

in saksham-sharma

EDUCATION

2014 – Now Bachelor of Technology IIT KANPUR CPI/GPA: 10.0/10.0

> 2014 Senior Secondary Grade 12 D.A.V. Public School Score: 97.6%

AWARDS AND ACHIEVEMENTS

- 2014-16 Institute Rank 1, IIT Kanpur CPI: 10.0 in 4 Semesters
 - 2015 Academic Excellence Award
 IIT Kanpur, 2014-2015
 - 2014 **All India Rank 10**JEE Mains, 1.5 million candidates
 - 2014 All India Rank 138

 JEE Advanced, 150,000 candidates
 - 2014 Aditya Birla Scholarship
 Among 15 IITans selected
 - 2013 KVPY Scholarship awardee Scholarship by Govt. of India
 - 2010 National Talent Search (NTS)
 Scholarship by Govt. of India

Coursework

A* Data Structures and Algorithms Computer Organization A^* Introduction to Programming A* Tools for Computing A^* Computer Systems Security Α Discrete Mathematics Α Abstract Algebra, Logic Α Probability and Statistics Α

A* grade for exceptional performance

TECHNICAL SKILLS

C/C++, Scala, Python, Node.js, Haskell, Lisp

Web Express.js, Akka, JavaScript, TypeScript, Angular

O.S. Gentoo, Arch Linux, Ubuntu
UTILITIES Emacs and Vim both, LATEX,
Linux Shell utilities, Git, Docker,
Kubernetes, GDB, ElasticSearch

INTERESTS

Systems Security, Networks, Open Source, Functional Programming, Web Development