Saksham Sharma

http://acehack.org_sakshams@(cse.)iitk.ac.in

FDUCATION

IIT KANPUR

B.Tech in Computer Science and Engineering

2014-Present | CPI: 10.0/10.0

D.A.V. PUBLIC SCHOOL, ASR SENIOR SECONDARY GRADE 12 Overall: 97.6%

LINKS

Github:// sakshamsharma LinkedIn:// saksham-sharma

COURSEWORK

Data Structures, Algorithms (A*)
Computer Organization (A*)
Introduction to Programming (A*)
Tools for Computing (A*)
Computer Systems Security (A)
Discrete Mathematics (A)
Abstract Algebra (A)
Logic in Computer Science (A)
Probability and Statistics (A)
(A* grade for exceptional performance)

SKILLS

PROGRAMMING LANGUAGES C/C++ • Scala • Python • Haskell • Java • Lisp

WEB DEVELOPMENT

Node.js (with Express.js) • JavaScript • TypeScript • Angular • Scala (with Akka)

OPERATING SYSTEMS

Gentoo Linux • Arch Linux • Ubuntu • Microsoft Windows

UTILITIES

Emacs and Vim both • LaTeX • Linux Shell Utilities • Git • Docker • Kubernetes • GDB • FlasticSearch

INTERESTS

Computer Systems Security Programming Languages and Approximation Open Source Functional Programming Web Development Capture the Flag contests

AWARDS AND ACHIEVEMENTS

2014-16 Institute Rank 1, IIT Kanpur (CPI 10.0/10.0 in 4 Semesters)
2014 All India Rank 10, JEE Mains, among 1.5 million candidates
2014 All India Rank 138, JEE Advanced, among 150,000 candidates

2015 Academic Excellence Award IIT Kanpur

2014 Aditya Birla Group Scholarship awardee

2014 KVPY Scholarship (IISc) awardee

2010 National Talent Search (NTS) Scholarship awardee

EXPERIENCE AND PROJECTS

RESEARCH FELLOW | May 16-July 16

Max Planck Institute for Software Systems, Germany

- Developed and evaluated tool (in Scala) 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
- Part of a larger tool being developed to optimize numerical programs

FULL STACK WEB DEVELOPER | May 15 - Present Internship under DoFA IIT Kanpur, Prof. Manindra Agarwal

- Was adjudged as one of the best interns while being a freshman
- Implemented various features in a large scale polyglot web application with an extensive technology stack, in a team setup
- Continue volunteering code, as a full-stack developer; managing the search component in Node.js and Scala

COORDINATOR Programming Club | Apr'16 - Present

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

SOFTWARE CORNER MANAGER Techkriti 2016, IIT Kanpur

- Made an esoteric language for a national competition
- Made online judge for a High Performance Computing contest

ABU ROBOCON IITK TEAM MEMBER '15 | Dr. Bhaskardas Gupta

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

MICROSOFT CODE.FUN.DO Winning Team Member Twice

- Developed an app to parse expressions and plot implicit mathematical function graphs
- Made frontend to a program simulation backend in JS
- National *5th* in Finals round Coding milestone. Made a platform to learn programming

MISCELLANEOUS

- BLog about Linux, programming etc at acehack.org
- Contribute sporadically to OPEN Source (Github)
- Microsoft Build The Shield, qualified first round, National 10th in the onsite round on offensive, defensive hacking
- Read, studied a fair share of COMPUTER SECURITY related papers and material; credited a graduate course at IIT Kanpur
- Attended a full paper-reading seminar on APPROXIMATE COMPUTING , research talks and lectures at the Max Planck Institute
- ADMINISTER various servers in IIT Kanpur; deploying and automating services for the junta