

Siddhant Shrivastava

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EDUCATION

BITS PILANI

B.E.(HONS.) IN COMPUTER SCIENCE
 Expected July 2016 | Pilani, India
 Department of Computer Science
 Cum. GPA: 8.62 / 10.0

ST. JOSEPH'S ACADEMY

Grad. May 2012 | Dehra Dun, India
 I.S.C (Class XII) : 94.75 / 100
 I.C.S.E (Class X): 93.2 / 100

LINKS

Github:// [sidcode](#)
 LinkedIn:// [siddhantshrivastava](#)
 Google+:// [+SiddhantShrivastava](#)
 Twitter:// [@siddhantcode](#)
 Quora:// [Siddhant-Shrivastava](#)

COURSEWORK

UNDERGRADUATE

Network Programming
 Operating Systems
 Logic in Computer Science
 Programming Languages
 Database Systems
 Number Theory
 Computer Architecture
 Discrete Structures
 Data Structures & Algorithms
 Linear Algebra
 Advanced Calculus
 Probability & Statistics
 Physics, Chemistry, Biology
 Multi-Agent Systems in Robotics
 (Study Oriented Project, BITS Pilani)
 Data Scientist's Toolbox
 (John Hopkins University, Coursera)
 Introduction to Logic
 (Stanford University, Coursera)

SKILLS

Languages and OSs:
 Python • C • C++ • R • Assembly •
 MySQL • Java • Linux • Windows • MacOS
 Scientific Research:
 L^AT_EX • ROS(Robotics) • SciPy • Sockets
 API • OpenCV • Matlab • TinyOS(nesC)
 Presentation & Media Creation:
 reveal.js • Adobe Tools • MS Office
 Photography • Origami • Trekking

RESEARCH

WEARABLE, PERVASIVE & NETWORKING LAB, BITS PILANI

UNDERGRAD RESEARCHER FOR PROJECT BITS-LifeGuard
 May 2014 – Present | Pilani, India

- Established real-time fault-tolerant sensor fusion in Body Area Networks with Prof Rahul Banerjee, Rajkiran Reddy, and Gokul Krishnan
- Integrated the Shimmer bio-sensor platform, Raspberry Pi, and Arduino via Bluetooth, Linux, and Embedded System programming.

ROBOTICS LAB, BITS PILANI

UNDERGRAD ROBOTICS RESEARCHER
 Aug 2013 – Present | Pilani, India

- Working with Mr. Avinash Gautam on the ROS-based TurtleBot to study open problems in Robotics and experiment with Human-Robot interaction.
- Programmed a multi-agent system with the Java Agent Development framework (JADE) to simulate Distributed Terrain Coverage algorithms.

MULTIMEDIA & HCI LAB, BITS PILANI

Dec 2014 – Present | Pilani, India

- Set up a Raspberry Pi based Beowulf cluster with Pranjal Ranjan
- "Infrastructure-as-a-Service" variant of experimental Hybrid Cloud of BITS Pilani - Shakti

EXPERIENCE

INDIAN INSTITUTE OF REMOTE SENSING, ISRO

SOFTWARE ENGINEERING INTERN & ALGORITHMS RESEARCHER
 May 2014 – Jul 2014 | Dehra Dun, India

Collaborated with scientists to develop OpenImagine, a satellite imagery geoprocessing software. Implemented Enhancement, PCA and Fuzzy clustering.

PROJECT BITS EMBRYO | EDITORIAL TEAM LEAD

Aug 2012 – Present | Pilani, India
 Contacted speakers and coordinated several online talks using Cisco WebEx and Jabber Telepresence. Science and Technology writer for *Aurora*, a campus newspaper.

BITS FIREFOX COMMUNITY | CO-FOUNDER AND TECH TEAM LEAD

Dec 2013 – Present | Pilani, India
 Conducted talks, install fests, and events to spread awareness about Linux and FOSS in the campus. Working towards providing Debian repositories on the BITS LAN.

PUBLICATIONS

- [1] R. Reddy, R. Banerjee, R. P. Pareek, and S. Shrivastava. A fault-tolerant wearable computing system architecture for vehicular drivers. *IEEE WoWMoM*, 2015. Submitted.
- [2] S. Shrivastava and R. Badlani. Data storage in DNA. *International Journal of Electrical Energy*, Vol 2. No. 2, June 2014.
- [3] S. Shrivastava and K. Kashikar. Dreams for simulation and learning. *APOGEE, BITS PILANI*, 2014.
- [4] S. Shrivastava and K. Kumar. Incoming phone call priority. *APOGEE, BITS PILANI*, 2014.