Shashwat Garg



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Shashwat-Garg

Relevant Coursework —

Advanced Data Structures and Algorithms

- Probability and Random Processes
- Algorithm Design and Analysis
- IoT Systems and the Cloud
- Database Practicum
- Pattern Recognition
- Artificial Intelligence
- Introduction to Communicating Distributed Processes
- Large Applications Practicum

Skills –

Languages

C, C++, JavaScript, PHP, Java Python, Android Development

Tools and Utilities

Git, Android Studio, MongoDB Visual Studio, MySQL, Node.JS Red Hat OpenShift, Salesforce Openframeworks

Honors & Awards –

Runner-up in Aavishkar | IIT Mandi -Stood 2nd out of 27 teams in the Technical Competition Aavishkar for the project - OculoScripter.

Runner-up in Topcoder Hackathon | Topcoder - Stood 2nd in the Hackathon organised by Topcoder in the College campus, for the project - CodeAssist. Special Mention for Design Practicum Project | IIT Mandi - Earned Special Mention for the flawless operation of the Design Practicum Project - Helpful Security Lock.

Special Mention Award | IIT Mandi -For the contribution and performance in Volleyball team of the institute.

Education

B.Tech., Computer Science and Engineering Indian Institute of Technology Mandi GPA: 9.1

Projects

Aug 2019- Present	 Distributed Formal Concept Analysis Major Technical Practicum Project Mentored by: Dr. Sriram Kailasam Tools: Java Kafka ZooKeeper HDFS Built a Fault-tolerant distributed system for irregular applications like Formal Concept Analysis with Linear time Closed itemset Miner. Currently uses only LCM, plan to extend to other algorithms too.
Feb 2019- May 2019	TrackPatthttp://github.com/Shashwat-Garg/TrackPattSystem Practicum Project Mentored by: Dr. Aditya NigamTools: Linux Kernel C Device Drivers Lock Screen• Linux Kernel Application that unlocks the system and runs a user decided application, when user draws a predefined pattern on the track-pad (similar to unlocking a smartphone by gesture).• Allows primitive patterns for now, can be extended to complex ones.
Feb 2018- May 2018	 Helpful Security Lock http://github.com/Shashwat-Garg/helpful-security-lock Design Practicum Project Mentored by: Dr. C.S. Yadav Tools: Python Raspberry Pi 3 Various Recognition libraries Aims at enabling the differently abled (as well as normal people) to easily ensure the security of their belongings. Differently abled can use fingerpint or voice recognition features or both easily. Uses different modules with combinations of Face, Fingerprint, Speaker, Barcode Recognition, and Pincode authorization.
Sep 2017- Nov 2017	 CodeAssist http://github.com/Lasers67/CodeAssist Database Practicum Project Mentored by: Dr. Arti Kashyap Tools: Node.JS JavaScript Hackerrank API cURL HTML CSS A platform for collaborative coding (real-time changes to a shared code), along with compile & run (with test cases optionally) and compilation errors, and fetches first result on Google for that error. Chatbot, friends and one-to-one chatting is also implemented.
Mar 2017- May 2017	 Oculoscripter http://github.com/Shashwat-Garg/OculoScripter Aavishkar & 6th Inter-IIT Techmeet Mentored by: Dr. Hitesh Shrimali Tools: Openframeworks C++ Code::Blocks People suffering from ALS or paralysis are not able to express themselves to the open world. Aim was to make it easier for them to communicate to the outside world. An openframeworks based c++ software, built on top of the open source project eyewriter-1.0 with a lot of modifications.
Experience	
Jun 2019 - Aug 2019	Software Development InternHyderabadMicrosoft India (R&D) Pvt Ltd.Tools: C++ OdaSDK• Loading of Floor Plans of various organizations on Bing is slow• Optimized these Floor Plans by removing unnecessary details• Peduced the Eloor Plans size by an average of 15%

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- Jun 2018 Trainee Jul 2018 Allsoft S
 - Allsoft Solutions, IBM Tools: Salesforce.com Admin | IBM Cloud
 - Learnt using Salesforce.com with Apex classes, Visual force pages, Process and Schema Builders and an introduction to IBM Cloud.

Delhi. India

• Did a project on Distance Learning involving all these technologies.