SANGAM KUMAR

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EDUCATION

B.Tech in Computer Science and Engineering, Senior Year　　　　　　2015 - 2019
National Institute of Technology Sikkim, India
- CGPA of **7.40**/10 (Dec 2018)

High School - Hare Krishna H/S Vidyalay, Vaishali, Bihar (BSEB) - 78.2%　　　2015
Secondary School - Krishnanand Memorial Academy, Munger, Bihar (CBSE) - 87.4%　　2012

EXPERIENCE

Software Developer Intern at HackerRank, Bangalore
Mentored by Harishankaran Karunanidni, CTO & Co-Founder　　　　　Jan, 2019 - Present
Closely worked on payment automation using Stripe API to generate billing receipts for the payer and send it to billing email. Added a function to check browser's compatibility for statuscheck page. Migrated contests' pages from Backbone code to ReactJS e.g, contest projecteuler. Created a comment box for HackerRank's Sourcing platform which appears to the recruiters for the candidate who attempts a recruiting test. Created a Icon library using SVGR which transforms given SVGs to desired React Component, and added Babel config to compile the Components. Main stacks used are RoR and ReactJS.

Winter Research Intern in Applied Cognitive Science Lab, IIT Mandi
Mentored by Dr. Varun Dutt, SCEE and SHSS, IIT Mandi　　　　　Nov, 2017 - Jan, 2018
Developed a solution to fetch sensors data deployed under soil and save it to the database for the Low Cost Early Warning Solution for Landslide using Arduino and 12 geological sensors. The sensors are used to collect the data values of an amount of rainfall, soil moisture, and angle variations. The data collected from the sensor triplets placed in different locations are sent to the cloud server via GSM. Created a solution to predict landslide by using z-score of total collected soil movements data and send alert to people, using SMS-PP (Short Message Service, Point-to-Point) and SMS-CB (Short Message Service, Cell Broadcast) to pre-warn the people in the areas of increased risk of danger.

Web Developer, Web Development Cell (WDC), NIT Sikkim　　　　Jan, 2017 - Present
Worked with the WDC Team to develop institute's dynamic website. The website, deployed at nitsikkim.ac.in, uses PHP and MySQL as initial tools and Bootstrap framework for stylesheets. I lead the Image Processing Team and maintain placement.nitsikkim.ac.in.

Summer Trainee, Motilal Nehru National Institute of Technology　　　Jun, 2017 - Jul, 2017
200 hrs of training on Enhancing Skill for Enterprise Scale Application Development(Core Java, Advanced Java, Design patterns, frameworks & Web Design) and created a Registration System using JSP, MySQL, and Bootstrap.

VOLUNTEER

Student Developer, Google Summer of Code 2018
Software Developer at coala.io　　　　　　　　　　　　　　Apr, 2018 - Aug, 2018
Worked on the enhancement of automated tests of coala, an open-source language independent code analysis tool, written in Python, and base class of coala-bears and its tests. Code Enhancement Proposal can be found in coala/cEPs repository. Also, created 2 bears(static analysis tools) for Ruby and 1 bear for Crystal by wrapping Brakeman, Fasterer and Ameba respectively.

Student Developer, Kharagpur Winter of Code 2017
Software Developer at coala.io　　　　　　　　　　　1 Dec, 2017 - 31 Dec, 2017
Updated html-linter from version 0.3.0 to 0.4.0 of HTMLLintBear and fixed PyLintBear which was breaking on Python 3.5.0.

TECHNICAL
SKILLS

Strongest Areas - Web Development, Databases, Algorithms
Languages
- **Proficient** - C, Python, PHP, Java, C++
- **Familiar** - Shell Script, Swift, C#, JavaScript, Ruby

Tools/Frameworks
- **Proficient** - MySQL, Git, pytest, unittest, coala, LaTeX, VSCode, Unix-System (Linux & MacOS)

- **Familiar** - ReactJS, Ruby on Rails, Redux, Karma, Yarn, Rspec, Django, Android, OpenGL, NodeJS, AngularJS, Docker, PyGame, NumPy, Keras, NLTK, matplotlib, PostgreSQL

RELEVANT COURSES
Data Structures and Algorithms, Operating System, Computer Graphics, Computer Networks, Databases, Automata Theory, Distributed Computing, Software Engineering, Computer Organisation, Deep Learning, Natural Language Processing

CURRENT WORK
Working on firefly algorithm (a new swarm intelligence algorithm) for big data optimization.

SELECTED PROJECTS
All projects available on git : https://www.github.com/sangamcse
- **Online Examination System** : Developed a MCQ-based online examination tool using PHP, MySQL, HTML, JavaScript and Bootstrap.
- **Registration System for workshop** : Developed a registration system along with a chat room system which has image upload and update system, using JSP, PHP, MySQL, HTML and Bootstrap.
- **Google Calculator for iOS** : Created a Google Calculator like basic Calculator for iOS app using Swift.
- **PNR Status Checker** : Created a CLI tool to check passenger name record in Indian Railway Journey, using Python3 and requests module.
- **Snake Game** : Created a script for snake game using Python2 and curses module.
- **Abhiyantran'17 Website** : A website for technical festival of NIT Sikkim.

ACHIEVEMENTS AND AWARDS
- Mentor at Google Summer of Code 2019.
- Software Developer Intern at HackerRank, Bangalore.
- Former Mentor at Google Code-in 2018.
- Former Student Developer at Google Summer of Code 2018.
- Software Developer at coala.io.
- Former Mentor at Kharagpur Winter of Code 2018.
- Student Coordinator of Training and Placement Cell, NIT Sikkim.
- Image Processing Team Lead of Web Development Cell, NIT Sikkim.
- Active participation on online competitive coding websites - HackerRank, HackerEarth, etc. Member Handle - sangamcse
- Selected for HackerEarth Campus Ambassador Program.
- Joint Team Member of Technical Talk at Abhiyantran 2017.
- Creativity Team Lead of Abhiyantran 2017 - Tech fest of NIT Sikkim.
- Creativity Team Lead of Udgam 2017 - Cultural fest of NIT Sikkim.

HOBBIES
Contributing to Open Source, Traveling, Photography

MORE
Please visit https://www.sangam.dev