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Shivam Kumar Jha

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Academics

2017-2022	*B.Tech + M.Tech (Dual Degree)* in **Computer Science and Engineering, IIT Kharagpur**
GPA	**9.06**/10.0 (Currently Pursuing)
2017	*Higher Secondary School Certificate Examination*, **CBSE**
GPA	**91%**

Technical Skills

Programming Languages	C | C++ | JavaScript | Go | Python
Libraries / Frameworks	Node.js | OpenCV | Numpy | Pandas | Scipy | CoffeeScript
Databases	SQLite | MongoDB | PostgreSQL | MySQL
Systems / Platforms	Git | Docker | Linux | Heroku | Microsoft Azure
Web / Servers	HTML | CSS | ReactJS | Flask | Jekyll | AngularJS | nginx | GraphQL
Others	Unity Game Engine (Boo Script) | Latex | SolidWorks | MATLAB

Experience

May 18 Aug 18	**Student Developer: Project Nephos** **CCExtractor, Google Summer Of Code 2018** - A client to automate the process of recording, processing and uploading IPTV streams for Universities under Red-Hen Labs, project closely supported by University Of Nevarra, Spain. - Learned extensive error handling, database management, remote server operations, FTP handling in Python, scheduling of jobs and maintaining elaborate logs to ease debugging.
Nov 18 Jan 18	**SE Intern: VWO** **Wingify, New Delhi** - Dockerised core components of VWO to facilitate easy migration and production setup. - Resolved data handling errors and UI fixes in VWO Dashboard using AngularJS.

Projects

- **DigiCon, OpenSoft 2018 IIT Kharagpur**
  Gold winning entry (out of 13 entries) to the Inter Hall Opensoft, IIT Kharagpur. The project intelligently parses different parts of a doctor's prescription (written by hand) and is an amalgamation of multiple technologies such as OpenCV, Flask, Natural Language Processing, REST API, bash scripting and Docker.

- **Messiah, Microsoft CodeFunDo++ 2018**
  A service that predicts the magnitude of Earthquake using Tensorflow. Had the opportunity to learn optimization of web services; backend and frontend, reducing loading time by 2.5x.

- **Games Using PyGame And Python**
  Worked on two projects; AirHockey and BrkOut. Learned basic mechanisms of physics programming and graphic development along with introduction to cryptography.

- **Salvator: Automated Task of Birthday Wishing**
  Salvator is one of the many task-automation bots I've created; sends birthday wishes. Other notable tasks accomplished via automation include Google form filling, Facebook group auto-posting, twitter quotes' bot and many more.

Activities & Leadership

- **OpenSource Program Mentor**: Mentored high school students for Google CodeIn 2018 under CCExtractor and had the privilege of being a top mentor for GirlScript Summer of Code 2018; responsible for building GirlScript's website.

- **OpenSource Event Organizer**: Successfully conducted GirlScript Summer of Code 2019 and Kharagpur Winter of Code 2018; responsible for the development, deployment and maintenance of the website (full-stack).

- **Maintainer, MetaKGP IIT Kharagpur**: Responsible for fostering participation, promoting the growth of the group and maintaining the following open-source projects: eva, mftp, chillzone and ERP Auto Login.

Scholastic Achievements

- **IITJEE Advanced AIR 286:** Under top 0.15% amongst more than 2,00,000 students
- **IITJEE Mains AIR 2285:** In top 0.2% amongst more than 11,00,000 students.
- **National Olympiads:** KVPY SA AIR , KVPY SX Scholar, Indian National Physics Olympiad Stage II, Indian National Astronomy Olympiad Stage II, Indian National Chemistry Olympiad Stage II.

Relevant Coursework

(T)heory and (L)aboratory

Completed	Programming And Data Structures (T/L)
Currently Studying	Algorithms I (T/L) | Discrete Structures (T)