Shivam Kumar Jha

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Academics

2017-2022	B.Tech + M.Tech (Dual Degree) in **Computer Science and Engineering, IIT Kharagpur**
GPA	**8.54**/10.0 (Ongoing)

Technical Skills

Programming / Scripting Languages	C	C++	C#	JavaScript	Golang	Python	Java	PHP
Libraries / Frameworks	Node.js	OpenCV	Click	.NET Core	Xamarin
DBMS	SQLite	MongoDB	PostgreSQL	MySQL
Systems / Platforms	Linux	Docker	Vagrant	Heroku	Azure	GCP
Web Technologies	Jekyll	Foundation 6	Bootstrap	Flask	Django	ASP.NET	ReactJS	AngularJS	REST	Gra	Nginx

Experience

May 19 July 19	**SE Intern: Cleartax**	**ClearTax, Bangalore**

- Updated information in micro-services (namely IFSCParser) for 2019 July filing season.
- Added and updated fields for ITR-2 2019 filing in data-layer, controllers and views, and established backward compatibility with previous filings.
- Worked on making tax-filing smoother by adding numerous bug-fixes, validation optimization's and front-end improvements.

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, written using AngularJS.
- Improved data synchronization speed and efficacy between front-end and data layer.

May 18 Aug 18	**Student Developer: Project Nephos**	**CCExtractor, Google Summer Of Code 2018**

- A command line tool to automate the process of recording, processing and uploading IPTV streams for Universities under RedHen Labs, project closely supported by University Of Nevarra, Spain.
- Learned extensive error handling, database management, remote server operations, FTP handling in Python, scheduling, modular configuration implementation, extensive logging and DRY methods.

Projects

- **Sample-Platform, Google Summer of Code 2019**
  Continuous Integration platform for CCExtractor's principal repository: improved the code sanity checking mechanisms through mypy, dodgy and other tools, increased unit-test coverage from 60.2% to 90+%, setup database migration methods, improved file comparison algorithms, implemented parallel running of tasks, and more.

- **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. Later developed in Streethack Blockhack under open category and bagged Runners Up position.

- **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.

Activities & Leadership

- **Student's Technology Coordinator, Technology GymKhana, IIT Kharagpur**: Holding the highest nominated technical position in the institute, I'm responsible for the smooth building and development of all technological fronts; GymKhana website maintenance, Institute's app development, students' grievance portal, etc.

- **OpenSource Program Involvement**: Mentored high school students for Google CodeIn 2018 under CCExtractor and was a top mentor for GirlScript Summer of Code 2018 and Summer of Innovation, IIT Dharwad. 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).

- **Student Speaker, Pragma IIIT Allahabad**: Spoke about efficient methods of planning and programming for perpetual processes in order to avoid overhead costs of maintenance and denial of service.

- **Maintainer, MetaKGP IIT Kharagpur | Executive Member, KOSS IIT Kharagpur**: Responsible for fostering participation, promoting the growth of open-source culture and maintaining open-source (campus-centric) APIs, services and task-bots.