KAUSHIK KUMAR MAHATO

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Course / Examination	Institute / University	Year	CGPA / Percentage
B. Tech in Computer Science & Engineering	Indian Institute of Technology Kharagpur	2015	6.49
Higher Secondary, AISCE - CBSE	Vidya Bharati Chinmaya Vidyalaya, Jamshedpur	2009	80.8 %
Secondary, AISSE - CBSE	Jamshedpur Public School, Jamshedpur	2007	85.2 %

ACADEMIC PROJECTS

Labanotation Parser using Image Processing	IIT Kharagpur	Jul 2014 - Present

- Developed a program to scan the **dance notation** Labanotation and parse to corresponding data in **XML**
- **Devised** an image processing algorithm to identify the staff using approach analogous to **path detection** technique
- Processed out and mapped each of the symbols present in input image to corresponding values using **neural networks**

Automated Stitching of Torn Paper Documents	IIT Kharagpur	Mar 2014 – Apr 2014

- **Conceptualized** a **novel multistage algorithm** to find adjacent torn pieces and seamlessly stitching of matched pieces
- **Evaluated** match ranking based on **pattern matching** and global consistency of final stitched pieces
- **Designed** a complete Linux based **OpenCV application** with **Extensible architecture** and UI in Java

Self-Regulating Mess Management System	RK Hall, IIT Kharagpur	Nov 2012 - Jan 2013

- **Produced** a card based identification system for Hall boarders at mess, **approved & running successfully** for **600+ users**
- Engineered an input device to read data from card utilizing **QR code technology** and **decrypt** the users identity
- **Developed** an software which identifies user, records in **MySQL** and displays entries based on processed input data

Facebook Music Application - YouPlayer	Yahoo HACKU	Apr 2012 – Jun 2012

- **Developed** a **Facebook application** that creates and plays playlist of songs according to user's Facebook profile likes
- Implemented using technologies like **Facebook API, YouTube API,** Yahoo Query Language (YQL) and Yahoo Web Player.
- Secured **1st position** among 41 submissions in HackU 2012, conducted by Yahoo! at IIT Kharagpur

Autonomous Goalkeeper Robot	Robotix, IIT Kharagpur	Dec 2010 – Jan 2010

- Prepared and built an **autonomous** goalkeeper robot using **differential drive** based on **Image Processing**
- Established ball tracking using **color filtering**, **edge detection** & **Hough transformation** techniques

INTERNSHIPS

Real-Time Geo-Location based Application	TruckHub	Jun 2014 - Aug 2014

- **Designed** an **application** with inherent ability track and communicate with specific mobile users in **real-time**
- **Designed & developed** a **mobile application** with feature of sending **location information** and pin-point users on the maps

3D Data Visualization and Analyzing Filters	GE India	May 2013 - Jul 2013

- **Designed** a CAD model **visualization tool** for extracting and filtering features critical to defect and damage prediction
- **Evaluated** different types of filter to be used for the data acquired by the **non-destructive testing** technologies

SKILLS

Languages	Java(proficient), C, C++(proficient), SQL, Python(familiar), PHP(proficient), JavaScript(familiar)
Libraries and Tools	OpenCV, VTK, libGDX, Maven, Git, CodeIgniter, MySQL
Software	MS Office, Photoshop, Premiere Pro, Matlab(Familiar), SolidWorks(Familiar)

POSITIONS OF RESPONSIBILITY

Senior Manager and Advisor	Entrepreneurship Cell	2011 - 2014

- **Lead** the development of websites and **web applications** for over 10 events with peek hit rate of 2000/day
- **Engineered** a **semi-automatic** registration and communication system for 1600 plus participants of Entrepreneurship Summit
- **Coordinated** Startup camp to exhibit startups and connect with students which has participation of 25+ startups
- **Architected** one stop **online platform** for getting Internship at startups known as StartIN providing more than 30 internships

Advisor, Technology General Championship Team	Radhakrishnan Hall of Residence	2013 – 2014

- **Coordinated** and guide captains & their teams to improve performance at Inter Hall Technology General Championship
- **Inspired** teams of all events for achieving higher goal than just winning & to participate in national or international competitions

Captain Open-Soft Inter-Hall Team	Radhakrishnan Hall of Residence	2013 - 2014

- **Lead** 20 members team at Inter Hall **Open-Soft competition** of 21 day long coding event for developing software from scratch
- **Groomed** the new member of the team with software development skills and **Objected Oriented Design**

ACHIEVEMENTS

Academic	• Secured **4th** state category rank and **112th** all India category rank in AIEEE out of 11 lakh applicants	2010
Technology	• **Gold** and **Bronze** winning Hardware Exhibition- **Transformer Robot** and **Semi Humanoid Robot**	2012,2013
	• **Bronze** winning **OpenSoft** of R K Hall of Residence on citation analyzing **desktop software**	2012
	• **Captain of Silver** winning **Ad-Design** - **Anti Ragging** & **Go Green Campaign** at Inter-Hall	2012, 2013
Social and Cultural	• Member of Gold and Silver winning **Rangoli** team of R K Hall of Residence	2012, 2013
	• Member of 2 times Gold winning **Illumination** team of R K Hall of Residence	2012, 2013
Initiatives	• **Founding member** Technology Filmmaking and Photography Society, developed infrastructural needs	2011
	• Developed cross platform **alert system** for pre placement talks, CV submission with **1000+ live users**	2014