

EDUCATION

2018 2013	M. Sc. in Mathematics and Computing Indian Institute of Technology, Kharagpur Coursework: Programming and Data Structures, Design and Analysis of Algorithms, Systems Programming, Object Oriented Systems Design, Database Management Systems, Operating Systems, Cryptography and Network Security, Graph Theory and Algorithms	CGPA: 6.95/10.0
2013	Senior School Certificate Examination, CBSE Shiv Jyoti Convent Senior Secondary School, Kota	PERCENTAGE: 89%
2011	Secondary School Examination, CBSE Nirmala Convent Senior Secondary School, Renukut	CGPA: 10/10

TECHNICAL SKILLS

PROGRAMMING	<i>Proficient in C, C++ familiar with</i> JavaScript, Python, Java, Assembly
LIBRARIES / FRAMEWORKS	Node.js, Express, AngularJS, Parse, Django
DATABASES	MySQL, SQLite, MongoDB
SYSTEMS / PLATFORMS	Git, Linux
MARKUP / TEMPLATING	HTML, CSS, LaTeX

WORK EXPERIENCE

JUN 17 MAY 17	Resarch Intern - Analyzed research papers on factors affecting the quality of crowdsourced work, determined factors requiring further research - Summarized the effect of the factors on the quality of outcome and set the context for further experiments on these factors - Submitted the results to the Journal of Internet Services and Applications (JISA), SpringerOpen, as an experiment report - Implemented visual regression testing using BackstopJS in SSTest, a testing module for SuperSQL, an extension for SQL	Keio University, Yokohama
DEC 16 NOV 16	Research and Development Intern - Analyzed and presented solution to a problem of data compression in small strings - Used adaptive arithmetic coding combined with Good-Turing smoothing algorithm	Teknuance Info Solutions Pvt. Ltd., Chennai
JUN 16 MAY 16	Web and App Development Intern - Developed modules for managing pictures and contacts in a website application - Implemented in MEAN stack using Parse backend - Tested and debugged several components using logging and unit testing in the website application - Developed backend for mobile app in NodeJS and Neo4J graph database for a social media android application	LogicSquare Technologies, Kolkata
JUN 15 MAY 15	Web Development and Device Interfacing - Developed web app for medical data acquisition kiosk in AngularJS and Django - Implemented user authentication feature using fingerprint - Implemented video conferencing feature using QuikBlox API	YOLO Health, Mumbai

PROJECTS

- **Regression Modelling in Crime Data, Group project**
Analyzed crime data as issued by 1990 US Census to find predict violent crimes per 100K population
Used Forward Elimination, Backward Elimination and Mixed Stepwise Regression approach for variable selection
Performed outlier removal and residual analysis to achieve Adjusted R-Squared of 0.657 using stepwise model
- **Attendance Evaluation Using Facial Recognition, Group project**
Implemented a MATLAB program to evaluate attendance using face recognition
Trained the program using images of students to create eigenface and then used it to perform comparison and to mark attendance

POSITIONS OF RESPONSIBILITY

APR 18 JUL 17	Captain, Western Music Team - Captain of Western Music Team of Rajendra Prasad Hall of Residence for session 2017-18 - Responsible for leading a team of 9 members in various inter-hall competitions
APR 15 AUG 13	Team Leader, Marketing and Information Management, AIESEC IIT Kharagpur - Published various marketing materials including event reports and stakeholder reports - Team Leader for marketing in Recruitment, February 2014. Witnessed 41% increase in participation, sold 245 recruitment forms in IIT Kharagpur Campus, due to extensive marketing strategies like word-of-mouth, posters, and flyers

SCHOLASTIC ACHIEVEMENTS

- **Joint Entrance Examination(JEE), Advanced 2013**
All India Rank 2558(top 1.6 percentile) in Joint Entrance Exam (JEE) - Advanced
- **INSPIRE Scholarship**
Recipient of Innovation in Science Pursuit for Inspired Research (INSPIRE) Scholarship since 2013