



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2020	M.TECH Dual Degree 5Y	IIT Kharagpur	6.51 / 10
2015	Senior Secondary Examination	Bihar School Examination Board	75.20%
2012	All India Secondary School Examination(AISSE)	Central Board of Secondary Examinations (CBSE)	10 / 10

INTERNSHIPS

Barclays Technology Centre India Private Limited | Intern Analyst | May'19 - Jul'19

Developed components of prototype e-commerce website, including shopping cart, quick view, and checkout page from scratch, using React components

Developed a custom api with node.js to handle login,register, detail and checkout.

Developed same website and used server side rendering to make it lighting fast, using next.js and styled-components for styling.

Developed custom api with fastify to handle browse product, login, register, product detail and checkout. Implemented server push feature of HTTP/2 network protocol.

Used guess.js for predictively prefetch webpages to enabling machine learning driven user-experiences on the web.

Converted existng web app into a progressive web app with workbox.

Hosted websites using Nginx generated free local TLS/SSL certificates.

Global Belly Summer Internship | Web Development & Search Engine Optimisation (SEO) | May'18 - Jul'18

Feature expansion like product and blog section in client shopify website.

Worked with google webmaster & analytics tool to improve the client **site ranking** to number 1 on google search.

Carried out **competitor keyword research** to increase the click rate to the client website. Worked on improving website user experience which resulted in **reduction of loading time** of the website from 8 seconds to under 3 seconds. Also did On Page and Off page optimisations.

PROJECTS

Online Health Monitor System (OHMS) | Software Engineering | Guide: Dr. Debasis Samanta | Aug'16 - Nov'16

Developed Online patient monitoring system where patients can be monitored outside the conventional clinical system. The project utilized **Java Swing library** along with the **file handling** concepts.

Online Restaurant Aggregator and Food Order System | Database Management System | Guide: Prof. Soumya K. Ghosh | Jan'18 - Apr'19

Developed web based application for online browsing and search of menu aggregated from multiple commercial restaurants. Customers can order food delivery online. Orders are to be forwarded to respective restaurants, who will deliver the food and bill the customers. Backend was handled using **Django**.

Reliable UDP Server & Peer-to-Peer Chat Application | Computer Network | Prof. Sandip Chakraborty, Networks Lab, Aug'18 - Nov'18

Designed a command line interface **peer to peer chat** application, where user can chat with each other using terminal. It is developed in **C++** using **TCP socket** programming without any intermediate server.

Implemented a reliable UDP server (for faster, in-order & reliable data transfer), by applying Slow-Start Congestion Control Algo over Sliding Window ARQ Protocol over UDP.

Automated Segmentation of Question-Solution Documents from NPTEL-NOC | B.Tech Project | Guide : Prof. Partha Pratim Das | Jan'18 - Apr'19

Made a **PDF segmenter** that correctly segments questions and answers from a question paper. In one of the implementation, also used **tesseract** (an opensource **OCR** offered by google), to get the segmented parts in textual form. The whole project was completed using **python**, **opencv** and its libraries.

MiniMatlab Compiler | Compilers | Prof. Pralay Mitra | Aug'17 - Nov'18

Implemented a compiler lexer, parser, machine - independent code generator and target code generator for MiniMatlab (a subset of C) in C / C++ using flex and bison libraries.

Computer Architecture

COURSEWORK INFORMATION

• Programming & Data Structure • Algorithm I & II • Computer Network • Software Engineering • Database Management System • Compiler • Machine Learning • Image Processing • Deep learning • Operating Systems

SKILLS AND EXPERTISE

• Programming language: C, C++, Python, React.js, Next.js, Guess.js, Node.js, Mxnet • Tools: AWS, Android Studio, Netbeans IDE, Anaconda, Git, Octave

• Familiar: HTML, CSS, Javascript ES6, SQL, Java • OS: Windows, Ubuntu/ Unix

COMPETITION/CONFERENCE

Developed a part of a **mobile game** for Windows phone in **Unity** - 3.0 # in 24 hours. **Infinite runner shooting game** with tapping feature and increasing speed in Code.fun.do Microsoft Overnight Hackathon

POSITIONS OF RESPONSIBILITY

Event coordinator at Navprayas

Navprayas is NGO working on upliftment of society by encouraging students through various activities. Worked on women empowerment and career counseling for students. Organized Chess, Sketching competition, Puzzle Race(with 1000+ participation) where winners got a prize by the District Magistrate.