

# CHIRAG JAIN

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## WORK EXPERIENCE

### GRADUATE TEACHING ASSISTANT – UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE AUG'18 - PRESENT

- Grading, proctoring and tutoring students for “Software Development Projects” course.
- Collaborating with students in projects which used full-stack technologies using Agile development.
- Employed languages like JavaScript, PHP and frameworks like Express.js, Angular.js, Bootstrap, RESTful for application dev.

### ENERGY ASSOCIATE WEB DEVELOPER – E4 CAROLINAS, INC. (CHARLOTTE, N.C.) JUN'18 - AUG'18

- Transformed the legacy version of the company website to a completely user-friendly and target oriented one.
- Slashed load-times to 1/3<sup>rd</sup>. Applied WordPress and its plugins to include new features for surged usability.
- Developed a Database system for the organization clients and its UI for data retrieval using Node.js and MongoDB.

### WEB DESIGN INTERN – EMPEROR SOLUTIONS (INDIA) MAY'17 - JULY'17

- Enhanced usability, improved appearance of front-end of client products by 50%. Tested products for usability, interface.
- Provided simple, strategic solutions for user interface, increasing the usability and workability.

## SIGNIFICANT HIGHLIGHTS -

### DESIGNING & BRANDING HEAD – TLC, INDIA (INDIA) SEPT'14 - MAR'17

Designed graphics for the organization and headed it soaring its brand value up to 200%. Formulated strategies to promote emerging brands expanding customer base by conducting launching events.

### INDUSTRIAL TRAINEE – DEPT. OF ATOMIC ENERGY (INDIA) JUNE'16 - AUG'16

Developed the communication links between beam-diagnostic sensors and receivers with increased speed and distance. Setup high speed Ethernet link between data receivers and processors while ensuring backward compatibility.

## EDUCATION

### MASTER OF SCIENCE IN COMPUTER SCIENCE, UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE MAY 2019

Machine Learning, Algorithms & Data Structures, Knowledge Discovery in Databases, Database Systems, Software Design & Implementation Computational-Human Behavior Modeling, Cloud Computing, System Integration, Network based Appl. Development

### BACHELOR OF ENGINEERING, EXTC, RAJIV GANDHI TECHNICAL UNIVERSITY, INDIA MAY 2017

## LANGUAGES & TECHNICAL SKILLS

C, C++	NodeJS, ExpressJS	MySQL, NoSQL	HTML5, CSS3
WordPress	Agile Development	MATLAB, IntelliJ	Python (Jupyter Notebook)
Hadoop, Spark	MVC patterns	Firebase, MongoDB	Bootstrap
GitHub	Adobe Photoshop, Illustrator	Corel Draw	Cisco Packet Tracer

## PROJECTS

### MATERIAL SWAPPING WEBSITE – HTML5, CSS3, NODE.JS, EXPRESS.JS, mongoDB

Followed MVC design pattern to structure the web application for swapping Meals. Maintained its session and validation using Express. Cross-browser compatibility. Secured the application using XSS and Social engineering. Scaled the application by using NoSQL data structure to persist data with help of MongoDB using Mongoose ODM. Used Node.JS for server side.

### PAYROLL AND HR DEPT. SYSTEM INTEGRATION – MYSQL, ANGULAR.JS, REST APIs, Spark.

A daemon thread having access to both the departments' database was used to uniformly update the system. AWS EC2 used for ETL operations and RDS for relational database. Elastic BeanStalk was used for hosting Rest APIs. React JS was used for the front-end.

### MODELLING ONLINE ACTIVITY FOR SURGED MARKET PENETRATION – PYTHON, NEURAL NETs.

Researched about the effects of various online activities which helped in producing influential marketing. Applied RNN-LSTM, Keras Deep Learning and Elastic Nets for the prediction of such user traits producing the influence online.

### FILE COMPRESSOR – PYTHON

Implemented Lempel-Ziv-Welch algorithm to encode & decode text data. Used dictionary data structure in Python to soar efficiency.

### ASK ME (P.W.A.) – FIREBASE, HEROKU, JS

A progressive web app (chat-bot), capable of taking the form of a conventional mobile app. Location based services and personal chat-bot with added benefit of its reach to the web. Agile methodology used for the continuous improvements and delivery.

### OFF-CAMPUS HOUSING FORUM – MYSQL, HTML, C++

A system with various off-campus housing options providing a platform to register, filter options, get connected, book, make payments and help with overall housing search and booking.