

P B RAHUL CHOUDHARY

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Software Engineer fascinated with new technologies and always excited to learn. Proficient in Java, C/C++ and Python along with experience in full stack through various projects.

TECHNICAL SKILLS

Languages: C/C++, Java, JavaScript, Python, SQL, R, PHP.

Framework/ Tools: Angular7, Spring Boot, Hibernate, MongoDB, Firebase, Spark, Spark-Streaming, Hadoop, Git, RStudio, Android Studio, Dialogflow, Arduino IDE.

EDUCATION

The University of Texas at Dallas (expected) May 2021
M.S., Computer Science **3.67**

B.N.M Institute of Technology, Affiliated to Visvesvaraya Technological University June 2019
B.E., Computer Science & Engineering **3.8**

INTERNSHIP

Old Dominion University, Norfolk, VA.
Full-Time Intern

- Won 2nd place for developing a chatbot for Homes.com (a Real estate company) using Google's **Dialogflow** framework, **Angular6** and **Firebase**.
- Part of the research team that worked on "Intervention methods for Alzheimer's patients". A research on the effectiveness of various intervention methods and how these methods could be implemented, carried out by the Computer Science department at Old Dominion University.
- Worked on EPOC plus device for the research work on "Sleep Prediction". A study conducted on the device to determine which electrode readings, under which frequency band; gives the best readings to predict whether a person would fall asleep.

OPEN SOURCE PROJECTS

TWITTER SENTIMENT ANALYSIS Feb 2020 – May 2020

- An ELK stack application that performs sentiment analysis on millions of live twitter tweets streamed through **Kafka**. The tweets are then analyzed through **Spark Streaming** and **Stanford-core-NLP**. The data is then sent through **Elastic Search** and the results are displayed through **Kibana**.

STOCK-BROKER APPLICATION Oct 2019 – Dec 2019

- Developed a full-stack application that enables users to buy & sell stocks and also view stock details and history, using **Angular7**, **Spring Boot** and **MySQL**.
- The application included features such as SSO (Single Sign-On), Request Compression, Asynchronous service, Communication Encryption, Caching and Queuing were implemented.

SMART HOME AUTOMATION SYSTEM Jan 2019 – May 2019

- Developed a "Smart Home Automation System" that predicts the state of appliances and controls them by integrating the concepts of Object Detection and Machine Learning using **Python** and **Arduino IDE**.
- Naïve Bayes and YOLO algorithms were implemented to predict and detect the presence of user to control various appliances. The system had an accuracy of 93%.

E-LEARNING PORTAL Aug 2018 – Nov 2018

- Developed an online learning portal using **Angular7**, **PHP** and **MySQL**. A full-stack application where users can buy courses and evaluate themselves by taking online exams in the portal.

ACIEVEMENTS, LEADERSHIP & ORGANIZATIONS

- Member of the Indian Student Association (ISA) and Grads of Computer Science (GCS) clubs at the University of Texas at Dallas.
- Won the *Best Project Award* for my undergraduate final year project - 'Smart Home Automation System'.
- 'Smart Home Automation System'; IJRSI, Volume 6, Issue 6.
- Organized the 'Coding Relay' and 'Pattern Print' events as a part of the annual college fest.