



Arun Setty Kodavali
Computer Science & Engineering
Indian Institute of Technology Bombay

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B.Tech.
Gender: Male
DOB: 20-12-2000

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2022	6.74
Intermediate	BIE Andhra Pradesh	Sri Chaitanya Narayana Junior College	2018	98.40%
Matriculation	BSE Andhra Pradesh	Dr.KKR's Gowtam School	2016	10

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 222** in **JEE Advanced** out of **180 thousand** candidates (2018)
- Secured **99.9 percentile** in **JEE Mains** amongst **1.2 million** candidates (2018)
- Secured **All India Rank 101** in **JEE Mains Paper-II** out of **200 thousand** candidates (2018)
- Secured **State Rank 83** in **AP EAMCET** out of **200 thousand** candidates (2018)
- Secured **State Rank 141** in **TS EAMCET** out of **220 thousand** candidates (2018)
- Cleared **KVPY Interview** and was recommended for the **Award of KVPY Fellowship** by **Department of Science and Technology, Government of India** (2017)
- Qualified to **Indian National Chemistry Olympiad** conducted by **HBCSE** (2018)

INTERNSHIPS

Core Developer, SDE | Hotstar

Summer 2021

- Designed and Developed a service which handles the whole spectrum of activities from dawn of a project through its entire lifecycle using **GoCD pipelines**
- Integrated various **Github API's** ranging from generating a repo to setting up checks for its content with the aforementioned service to build a **state maintained system** for tracking all the changes in the organisation
- Designed the service to be **OpenAPI** compliant so that it could be transitioned into a **CLI tool**

AI empowered Product Discovery | Inscripta.ai

Winter 2020

- Created an API which collects details from a conversation and searches for most suitable product in scraped data from a wide range of articles gathered from various sources

AI based Chatbot | Oficio Cloud Software

Summer 2020

- Developed API's that enable **Creation** and **Management** of events in **Google Calendar**
- Integrated the aforementioned API's with an **AI powered conversational bot** using RASA system
- Interpreted the **Data Models** and designed the bot with ability to handle various conversations and reply in given context by gathering sufficient information from the ongoing discussion

Full Stack Developer | TheRightDoctors

Winter 2019

- Implemented a pipeline for **Automated Continuous Integration** and **Continuous Deployment** for a Web Application built on **MEAN Stack** using **CIRCLE CI** and **BitBucket** Integration in **GCP**
- Wrote **Testcases** for testing functionality and UI of the Web Application using **Protractor** and **Jasmine**
- Built and Developed **Auto Draft Saving System** and **Payment Integration** for Web Application
- Developed a custom **Mailer** for sending mails automatically during a period of time with a chosen frequency

COURSE PROJECTS

Movie Recommendation System

Database and Information Systems Lab

Prof. Umesh Bellur

Spring 2021, IIT Bombay

- Designed and Developed a web application using Nodejs framework which can **recommend movies** based on the **ratings** provided by the user for some movies
- Implemented **buddy system** using which a user can make friends and recommend movies to other users

C-like Language Compiler

Prof. Uday P Khedker

Implementation of Programming Languages Lab

Spring 2021, IIT Bombay

- Developed an executable using **lex** and **yacc** which can compile and execute C programs
- Implemented a feature to get **Abstract Syntax Trees** and **Intermediate code** for the input program

Online Forms and Surveys

Prof. Amitabha Sanyal

Software Systems Lab

Autumn 2019, IIT Bombay

- Designed an **Online Application** which enables the users to create **Forms, Surveys** etc., for easily analysing different types of data via **Graphs** and **Charts** stored securely in **MySQL** database for fast access
- These can either be **shared to anyone** who is a user, **to specific group of Users** identifiable by an organization or just a **subset of Users** specifically added by the user using **link** or **form-code**

Grammar Correction and Word Predictor Tool

Prof. Amitabha Sanyal

Programming Paradigms Lab

Spring 2019, IIT Bombay

- Designed an **Offline Grammar Correction and Word Prediction Tool** using **Racket** language
- Used Variety of Strategies and a database of over **2,50,000 English Words** including famous phrases for prediction using the **Optimised Decision Tree Algorithm**

Other Course Projects

Programming Paradigms Lab

- **Basic Machine Learning** : Used the concept of Entropy Reduction as a primary criterion for constructing optimal Decision Trees for predicting the results based on given data. Used Abstract Data Structures for storing different values of the Entropy from given Data
- **Cryptal Analysis and Decryption** : Decrypted Mono Alphabetic substituted Cipher using ETAI and common word occurrence strategies. Widely used the help of Heuristic Algorithms for finding the secret word used in encoding the Cipher
- **Interpreter for Racket Language** : Designed an Internal Interpreter for Racket Language using Environment model of Execution. Used Abstract Data Structures to construct Frames and Pointers to give efficient outputs for system

TECHNICAL SKILLS

Programming	C, C++, Python, Java, Bash, Racket, Prolog
Software	MATLAB, Git, L ^A T _E X, AutoCAD, SolidWorks, VHDL, Firebase
Web Development	HTML, CSS, JavaScript, Angular, NodeJS, Django, Cookies & JWT
Databases	MySQL, SQLite, MongoDB, PostgreSQL

KEY COURSES UNDERTAKEN

Computer Science	Data Structures and Algorithms, Software Systems, Discrete Structures, Data Analysis and Interpretation, Design and Analysis of Algorithms, Abstractions and Paradigms in Programming, Logic for Computer Science, Digital Logic Design, Computer Networks, Artificial Intelligence and Machine Learning, Implementation of programming languages, Operating Systems, Computer Architecture, Database and Information Systems, Automata Theory
Mathematics	Calculus, Linear Algebra, Differential Equations, Numerical Analysis

EXTRACURRICULARS

- Achieved **Alpha** grading in **B-certificate** examination of National Cadet Corps ('19 - '20)
- Successfully completed **2 years** of professional training of NCC at NCC, IIT Bombay ('18 - '20)
- Taken part in **Republic Day Parade** at IITB visited by a crowd of over 1000 people (Jan '19)
- Volunteered in Abhyuday IITB's **Career Counselling Campaign** in collaboration with NCC (Nov '18)
- Undergone rigorous training in **Annual Training Camp** (ATC) of **10** days conducted by NCC (Dec '18)
- Participated in **Road Painting** in **Kaladarshan**, the photography and fine arts exhibition of IITB (Mar '20)