

Arjan Singh Bal

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EDUCATION

IIIT, GWALIOR

B.TECH + M.TECH (INFORMATION TECHNOLOGY)
(Expected 2021)
Cum. GPA: 7.53/ 10.0

NAVY CHILDREN SCHOOL

SENIOR SECONDARY
Delhi, Grad. 2016 | Percentage: 95.2%

NAVY CHILDREN SCHOOL

HIGHER SECONDARY
Goa, Grad. 2014 | CGPA:10/10

LINKS

LinkedIn: [arjan-s-bal](#)
Codechef: [arjan_bal](#)
Hackerrank: [sudoBug](#)
Codeforces: [sudoBug](#)
Hackerearth: [sudobug](#)
Topcoder: [sudoBug](#)
Github: [arjan-bal](#)

COURSEWORK

GRADUATE

Information Systems Security
Data Mining and Data Warehousing
Parallel and Distributed Computing
Cloud Computing

UNDERGRADUATE

Design and Analysis of Algorithms
Operating System
Computer Networks
Computer Architecture
Data Communication
Software Engineering

SKILLS

PROGRAMMING

C++ • Python • Javascript • Typescript

DEVELOPMENT

Django • Node.js • Angular • ExpressJS •
Bootstrap • HTML/CSS • AWS

DATABASES

SQL • MongoDB

EXPERIENCE

GOOGLE | SOFTWARE PRODUCT SPRINT PARTICIPANT

July 2020 - August 2020 | Virtual, India

- Worked in a team of 4 to build a wedding planning fullstack web app which allows vendors of wedding related services to advertise and customers to view, rate and review services and add them to a cart to get cost estimates
- Technologies used: ReactJS, NodeJS, MySQL, Google Cloud
- Awarded team MVP for most contributions to project

CODENATION LLC | SOFTWARE DEVELOPMENT INTERNSHIP

April 2020 - June 2020 | Bengaluru, India

- Used Django and AWS to replicate APIs of the popular test management tool TestRail by studying it's Swagger document.
- Created APIs to provide aggregated data for various graphs on frontend.
- Designed relational database schema to handle 30+ entities and their relations.
- Wrote metadata to for 10 types of reports and used it to validate form data in < 400 lines of code.

ACHIEVEMENTS AND AWARDS

- 2020 HackWithInfy 2020 48hrs. Hackathon Champion among 100k+ participants
- 2020 5th in TCS Codevita Global Finals out of 100k+ participants
- 2020 Rated India #1 on Hackerearth, top 15 Codechef and top 10 Hackerrank
- 2020 9th / 1000+ participants worldwide in Jan Challenge(div 1) on Codechef
- 2019 19th in ACM ICPC Kharagpur & 21st in Gwalior Regionals 2019
- 2019 41st in Google Codejam Kickstart Round C
- 2018 12th / 5k worldwide in University Codesprint 5 on Hackerrank

PROJECTS

FOOTSTEP RECOGNITION USING DEEP NEURAL NETWORKS

- Pre-processing of the SFootBD database set consisting of 20000 footstep signals obtained from floor sensors, applied filters to reduce noise.
- Applied PCA for dimensionality reduction, reduced model training time.
- Applied an ensemble of state of the art SE ResNext model along with XGBoost and SVM to get an Equal Error Rate of 87%.

CHATTING AND IMAGE SHARING APP

- Built front end using Angular, used angular material design library, router, rxjs observables, reactive forms.
- Implemented token based authentication using JWT.
- Added authorization, image upload and storage, pagination to REST APIs.

RESPONSIBILITIES

- Teach data structures and algorithms to students as part of the Coding Club.
- Event Head and Problem setter of Code Rush, a programming event part of the national level technical fest "Infotsav 2019".