

Piyush Rane

SENIOR YEAR UNDERGRADUATE | COMPUTER SCIENCE AND ENGINEERING

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EDUCATION

IIT KANPUR

B.TECH, COMPUTER SCIENCE
July 2018-2022 (Expected)
CPI: 7.9/10.0

R.K.V.M GWALIOR

12th Grade (CBSE) | 2018
Percentage: 90.6/100

K.V. NO - 5 GWALIOR

10th Grade (CBSE) | 2016
CGPA: 10/10

COURSEWORK

Fundamentals of Computing
Data Structures and Algorithms
Software Development and Operations
Principles of Database Systems
Operating Systems
Compiler Design
Computer Organisation
Theory of Computation
Introduction to Machine Learning
Python for Everybody (*)
Discrete Mathematics
* Online Coursera specialisation

SKILLS

Programming Languages

C++ • C • Python • Javascript
HTML • CSS • bash

Tools

Google Firebase • SQLite3 • MongoDB
Github • Docker hub • \LaTeX • lex • yacc

EXTRA-CURRICULAR

JUNIOR EXECUTIVE

Worked in Techkriti Open School
Championship team and was responsible
for fair conduction of exam for 200+
students.

AWARD - ART CONTEST

Secured **Special mention** by competing
with other IITs in the **Inter Institute Art
Contest** organised by IITB.

DANCE COMPETITION

Secured **First** position in the IITK
Inter-hall group dance competition

WORK EXPERIENCE

AXIS BANK

Summer Internship

May 2021 – July 2021

Secured PPO

- Created a **single node kubernetes** cluster locally using **Minikube** and a **multi-node kubernetes** cluster on **AWS** using **Amazon EKS**
- Deployed and customized the open source **RASA chatbot** on these clusters
- Enabled the cluster for **automatically scaling up/down** the number of **pods**
- Technologies: **Docker, Kubernetes, Minikube, RASA, Github, helm, Nginx**

IITK SUMMER OF CODE

Full stack developer intern

MAY 2019 – JULY 2019

[Touch-EPFM](#)

- Received intensive training in technologies used in **Full-Stack** development
- Collaborated in a team of five to **develop** an Employee Feedback Mechanism **web-app** that **automated** the manual **feedback system** of employees
- Implemented different **functionalities** for **Admin, Supervisors & Employees**
- Technologies: **JS, HTML, CSS, JQuery, Bootstrap** and **Google Firebase**

ACHIEVEMENTS

2021 - Received Pre-placement offer for the role of **analyst** from **Axis Bank**

2018 - **Qualified Stage 1** of **KVPY**, Indian Institute Of Science Bengaluru

2017 - **Qualified both stages** of **KVPY**, Indian Institute Of Science Bengaluru

PROJECTS

C - COMPILER | PROF.AMEY KARKARE

CS335A Course Project

JAN 2021 - APRIL 2021

[CS335A-Compiler-Design](#)

- Built a **compiler for C** by performing **lexical, syntax and semantic** analysis
- Produced **abstract syntax tree** in **dot script** and generated **assembly code**
- Used **3AC** as **intermediate language** to connect source & target language
- Source - **C**, Implementation - **C++**, Target - **x86 Assembly (AT&T Syntax)**

DATABASE ANALYSIS | PROF. ARNAB B.

CS315A Course Project

JAN 2021 - APRIL 2021

[Database Analysis](#)

- Analyzed **database systems** using **4 queries** on various **size** databases
- Measured the **time taken** by queries and represented them in **graphs**
- Database: **MongoDB, SQLite3, MariaDB**, Tech stack: **Python, bash, expect**

GEM OS | PROF. DEBADATTA M.

CS330A Course Project

SEPT 2020 - DEC 2020

- Implemented OS elements such as **Paging, File system & Message Queues**
- Programmed various **system calls** such as **open, read, write, dup2, lseek**
- Implemented memory management operations like **mmap, munmap** and **huge page creation**

APP DEVELOPMENT

Association for Computing Activities(ACA)

FEB 2019 - APRIL 2019

- Learned **Linux/Unix commands** through **Bandit OverTheWire Wargames**
- Built a calculator in **HTML, CSS, JS** and a Time Table App in **Android Studio**