

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

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

WORK EXPERIENCE

AXIS BANK

May 2021 – July 2021

Summer Internship

- 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

MAY 2019 – JULY 2019

Full stack developer intern

🌱 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**

PROJECTS

C - COMPILER | PROF. AMEY KARKARE

JAN 2021 - APRIL 2021

CS335A Course Project

🌱 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
- Implemented **Least-Recently Used** algorithm for register allocation
- Source - C, Implementation - C++, Target - **x86 Assembly (AT&T Syntax)**

DATABASE ANALYSIS | PROF. ARNAB B.

JAN 2021 - APRIL 2021

CS315A Course Project

🌱 Database Analysis

- Analyzed performance of database systems using various sized 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.

SEPT 2020 - DEC 2020

CS330A Course Project

- 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

FEB 2019 - APRIL 2019

Association for Computing Activities(ACA)

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