



IIT Ropar, B.Tech, Computer Science
JEE Advance AIR: 1633
 Portfolio:
https://kartikeyapise.github.io/Kartikeya_resume/

KARTIKEYA PISE
 Age: 22 years old
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WORK EXPERIENCE

Software Developer @ **Amazon, India.**

current job

- Part of Project Santos at Amazon which helps merchants to build their own Virtual shops.
- Technologies Used - SpringBoot backend and React (Typescript) for UI as a part of Project Santos.
- Cloud Infrastructure - Complete Infrastructure is hosted on AWS.
- AWS services used - ECS and Fargate, S3, DynamoDb, SNS/SQS, KMS-CMK, Cloudfront, route53, Lambda, Api-Gateway, Load balancer.
- Experienced in using AWS CDK to maintain infrastructure as a code.
- Good at shipping clean, high quality readable , robust, reusable and maintainable code.
- Good at following SOLID Design Principles, TDD and Agile programming practices.
- Listed in Santos wall of fame for resolving lot of tickets in a short time span.
- Implemented End to end TLS termination on Santos Services.

INTERNATIONAL INTERNSHIP

In-house System Developer, **Weathernews Inc. Japan.**

May 2020 -Jul 2020

- Part of **Server Engineering** team which is responsible for handling and maintaining the database servers and web servers
 - Created web page to visualise and **download data stored across different servers** for employees.
 - Displayed authority information of employees after their login for better management.
 - Added password policies on different registration pages to **enhance security**.
 - Improved the display speed of web-pages by reducing load of humongous data on JS for **better user user-experience**.
 - Created a Web application that enables **database synchronisation between different system environments** on a click.
 - Helped system administrators to download a list of all users with appropriate information.
- Learning Experience: **Team-work, Structured Programming Practices**, Patience and co-operation, extensive use of git, working on a remote server.

TECHNICAL PROFICIENCY

AWS familiarity: **EC2, ECS and Fargate, Lambda, S3, DynamoDb, KMS-CMK, Cloudfront, route53,API-Gateway, Load balancer.**

Frontend-skills: **HTML, CSS , JavaScript, React, jQuery, vis.js, Bootstrap, Tailwind.**

Backend-skills: **Java, Spring, Spring Boot, Node.js.**

Database: **MySQL, PostgreSQL, MongoDB.**

DevOps skills: **Linux, GIT, Docker, Maven, Ant.**

Testing Frameworks: **JUnit, Mockito, Jest (JavaScript).**

Java/spring API's: **JDBC, JPA, Hibernate, Lombok, etc.**

Other skills: **Python,Perl, Perl CGI Script,C, C++, assembly.**

Node.js libraries: **mongoose, Joi, bcrypt, jsonwebtoken, config.**

Python Libraries: **Matplotlib, NumPy, Pandas, NetworkX.**

Template Engine: **Pug, Thymeleaf.**

Familiar with : **Agile Practices, CICD, TDD, Socket Programming, SOLID design principles, Object Calisthenics, 12-factor App, Version control systems ,Linux Administration, Containerisation, Sql and NoSql databases, Object Oriented Programming, etc.**

RELEVANT COURSES

AWS technical Essentials, Developing on AWS, SpringBoot(John Thompson),Java (Code with mosh)
Node.js (Code with mosh), React (Code with mosh), TypeScript (Maximilian Schwarzmuller), Web
Application and Software Architecture 101 (educative.io)

ACADEMIC PROJECTS

Projects Details: https://kartikeyapise.github.io/Kartikeya_resume/projects.html

WhatsApp Clone – MERN Stack Build

Created A WhatsApp clone using HTML, CSS, JavaScript, React, Node and MongoDB.

Supports Real time Database operations (to update messages in real time)

Used Pusher to make MongoDB Real time.

Git Link for React Frontend:

<https://github.com/Kartikeyapise/whatsapp-MERN-frontend>

Git Link for Node Backend:

https://github.com/Kartikeyapise/whatsapp_MERN_backend

DLD Website - Web Development

<https://github.com/Kartikeyapise/Website-for-Digital-Logic-Design>

Website to help and aid the learning process of students enrolled for Digital Logic Design.

Includes: Simulations for Boolean algebra using gates.

Simulation to visualise State Machines

Simulation to visualise binary Arithmetic

Website hosted on:

https://kartikeyapise.github.io/Binary_Arithmetic_by_kartikeya/

RISC_V Assembly Language Simulator – SDE

<https://github.com/Kartikeyapise/RISC-V-Simulator>

Advanced RISC V simulation software converts assembly instructions to machine language. Supports

Pipelining forwarding, stalling as well as branch prediction.

KD-trees Data Structure

https://github.com/Kartikeyapise/KD_tree_for_efficiently_searching_geometric_data

Implemented 2-d tree which can efficiently search 2 dimensional geometric data.

Supports K nearest neighbours(KNN) query and range queries.

File transfer system-Software Development

<https://github.com/Kartikeyapise/File-transfer-system>

Software for transferring files from one IP address to another.

Grid Files- In-memory Data Structure

https://github.com/Kartikeyapise/Grid_File

Grid file (geometric data structure for optimised range queries and searching) implementation. Grid file

Keeps dividing efficiently all the points in 2 dimensional plane and adds the points in a bucket. The

maximum size of the bucket is fixed. Due to this implementation we can optimally search any point in 2-d
plane using the grid number and traversing the corresponding bucket.

SOCIAL WORK AND POSITIONS OF RESPONSIBILITY

- Organisation: **BloodConnect** | Role: **Fund-Raising-Executive** | Cause: **Social Service** Sep 2017 - Aug 2019
Aim: To eliminate the Blood shortage.
Activities: Organise frequent Blood donation camps | Supply blood to blood banks.

AWARDS AND RECOGNITIONS

- **KVPY-IISc** (Kishore Vaigyanik Protsahan Yojana) | Indian Institute of Science (IISc) xNov 2016
- **52nd Inter-IIT sports meet** | Indian Institute of Technology Madras Dec 2017
- **Maharashtra Talent Search Examination(MTSE)** | Nowrosjee Wadia College, Pune Aug 2013
- **1st place in chess** competition. (2nd Year) | IIT Ropar Jan 2019
- level 1-2 - **Harmonium** Exam | Akhil Bhartiya Gandharva Mahavidyalaya Mandal, Mumbai Jun 2008