Manish Agarwal

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EDUCATION

BTech in Computer Science
June 2014 | Kolkata
Heritage Institute of Technology
Cum. GPA: 7.81 / 10.0

LINKS

Github:// **manishrocksag**
LinkedIn:// **manishrocksag**
Website:// **iammanishagarwal**

SKILLS

- Data Structures
- Algorithms
- Microservices
- Distributed Systems
- SQL and NoSQL
- AWS
- Docker
- Python • Golang • NodeJS

EXPERIENCE

CK12 FOUNDATION | Senior Software Engineer
June 2020 - Present | Bengaluru, India

- Developed pdf service to allow downloads for the web version of the CK12 books in the pdf format. A highly useful feature in remote countries where internet speed is slow or the internet is not present.
- Integrated docker with existing services to allow for seamless testing and production level builds once code gets committed to repositories.

SALTSIDE | Senior Software Engineer
Oct 2018 - May 2020 | Bengaluru, India

- Developed inhouse image service to replace **Cloudinary**. The service supports all the image operations in the lifecycle of the image. It is highly scalable and receives close to million requests per hour. It helped us in saving thousands of dollars in subscription service. (NodeJS, Libvisp, Sharp, S3, Cloudfare)
- Led the team to build chat service in record time when one of our vendor Layer(Chat Service Provider) suddenly decided to close down its operations. The chat supports all forms of communication between users across cross-platform devices. (DynamoDB, WebSocket)
- Developed search for our jobs section with multi-filter support. (Elastic Search, MongoDB)
- Developed notification service using firebase to push notifications to mobile clients.
- Implemented doorstep delivery for our vendors selling products through our portal, which allows them to deliver products directly to their consumers.

TYPESET | Software Engineer
Sept 2017 - Oct 2018 | Bengaluru, India

- Developed uploads management workflow which takes an image in any format and converts it to png which is later consumed by the rendering pipeline. The system also takes care of optimizing the large image on the fly to save rendering time. (RabbitMQ, Celery, Redis, S3)
- Developed payments system for team pricing which allows researchers to use the Typeset platform in groups and collaborate on research papers. This turned out to be a major revenue generator for typeset.

DOSEPACK | Software Engineer
June 2014 - Aug 2017 | Oakland, US

- Developed the dosepack software from ground zero which is used by pharmacy to interact with robot and perform operations on it. The interface is a web application built using RESTful architectural style. The application uses Python to define its core modules, peewee as an ORM, cherrypy as an application server, and MySQL as a database server.
- Optimized the pack generation algorithm. Reduced the time required to generate 100 packs for robot processing by 10x.