

Ashutosh Kumar

Software Development Engineer

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[LinkedIn](#) | [Medium](#)

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EXPERIENCE

Portcast.io (March 2022 - PRESENT) — Software Engineer II

Portcast API

- Successfully integrated Astrapaging and FreightTower data services into the vessel metadata, port calls, and container events system.
- Implemented company-wide code quality standards such as CI/CD pipelines, test cases, documentation, & created an internal PyPi repository.
- Created three reusable components, viz. API Usage Manager, DB Router, and Data Provider Fallback Manager, and published them as PyPi packages.

Portcast Data Ingestion Containers

- Spearheaded the development of the organization's initial microservice, which was responsible for processing container events data by utilizing pydantic, FastAPI, Cassandra, and Celery.
- Designed the microservice's architecture, end-to-end code flow, technology stack, and database schema, ensuring high-quality code throughout the development lifecycle.

JPMorgan Chase & Co. (Aug 2020 - March 2022) — Software Engineer

NOVA Platform

- Took charge of developing three out of the four microservices that were managed by the team and included in the strategic NOVA framework.
- Guided the team through the onboarding process to the firm's strategic Athena platform by creating boilerplate code and conducting demo sessions.

Analytics Extract Builder and Results Explorer

- Created APIs and a ReactJS-based UI that enabled business users to manage SRE-dependent requests independently, resulting in a reduction of 8-10 days (200+ tasks) of error-prone manual work per quarter.
- Developed a Job Management framework that facilitated multiple users to submit requests concurrently, leading to a streamlined experience.

Bosch Engineering & Business Solutions, (May 2019 - July 2019) — Intern

Machine Learning based Pseudo Random Number Generator (PRNG)

- Created PRNGs utilizing GANs that achieved a 98.64% success rate on test instances & VAEs that achieved a 98.80% success rate on the NIST test suite.
- Devised a sampling mechanism to extract samples from the aforementioned PRNGs, which yielded a 99.05% success rate on the NIST test suite.

Other Experiences

CSTEP, Bengaluru (May 2017 - June 2017) — *Research Intern* — Mathematical Modeling of Photo-Voltaic (PV) panels

EDUCATION

Indian Institute of Technology, Kharagpur - B.Tech and M.Tech Dual Degree

CGPA - 8.32 | 2015-2020

OPEN SOURCE PROJECTS

- [TODO Notifier](#)
- [Easy Dictionary Wox Plugin](#)

COURSES

- Data Structures & Algorithms
- Probability & Statistics
- Docker Deep Dive (Pluralsight)
- Python Core and Advanced Path (Pluralsight)
- Machine Learning (Coursera)
- Deep Learning (deeplearning.ai)

SKILLS

- Python, ReactJS, C++
- FastAPI, Flask, Tornado
- Cassandra, PostgreSQL
- Celery, Docker, pytest, CI CD
- Data Analysis, Machine Learning

AWARDS

JPMorgan Chase & Co. SEP India & APAC Recognition Scroll, May 2021, Aug 2021:
2X Recipient client excellency category

JPMorgan Chase & Co. Corporate Technology India Excellence Award, April 2021: Winner for impactful work in reducing SRE toil

Wipro Earthian Challenge, Feb 2017:
Represented IIT Kharagpur and winner across all colleges in India

IIT JEE Advanced, 2015: AIR 1504