AJAY PRAKASH

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PROFESSIONAL EXPERIENCE

Cactus Communications
Mumbai, India

Software Engineer — May 2022 – Present

- Achieved a 98% reduction in API response time by transitioning from threading to asyncio to optimize asynchronous processing and enhancing backend storage efficiency through the migration from S3 to AWS EFS.
- Identified and repaired critical bugs, resulting in a 50% decrease in system crashes and improved user satisfaction.
- Achieved 100% system availability by orchestrating a robust timeout management solution by integrating AWS SQS as a Dead Letter Queue with AWS Lambda.
- Developed an API enhancing user engagement by 5% through personalized article recommendations derived from feed history data using FastAPI,AWS ECS with EC2 and Terraform.
- Implemented an API for document classification based on textual content analysis using FastAPI,AWS ECS with Fargate and Terraform.

Wellowise
Delhi, India

Full Stack Developer (Part-Time) — Oct 2019 – Jan 2022

- Reduced report generation timeline from 1 week to 3 hours through the successful implementation of an automated process which retrieving data from the backend, rendering it into HTML, and convert it into PDF format.
- Increased Security of microservices by Developing a Gateway API with JWT Authentication, integrating 8 microservices into a single unified API using Flask, PyJWT, and Django.
- Designed an AngularJS-based admin frontend web app, with backend in Django to view and update patient records which reduced record updation time by 80%.

MyWanderlust
Himachal Pradesh, India

Tech Intern (Internship) — May 2019 – Jun 2019

- Implemented an ad performance analysis system leading to a 20% increase in conversion ratio.
- Increased revenue by 5% through the development of an automating certificate distribution for trek completions.

PROJECTS

Graphical Abstract Generator | *Demo*

- Users upload their research articles in PDF format and get visual representation of their research paper.
- It uses GPT to summarize research paper and suggest images, which are then rendered into a template.

AWARDS & ACHIEVEMENTS

Cactus Communications: Won Project of the Quarter award for "Paperpal Copilot"(2024), 2nd position in GCP GenAI Buildathon(2023), Secured the 2nd position in the Dyson Datathon(2022)

IIIT-D: Achieved 1st place in a 24-hour Development Hackathon(2019), 3rd place in the Software-Hardware Development Hackathon(2018)

CodinGame: Ranked 1st in India and 30th globally in January 2018 on CLASH OF CODE.

SKILLS

Programming Languages: Python, JavaScript, Java, C++, HCL

Cloud Technologies: AWS Lambda, ECS, EC2, FARGATE, SQS, S3, Terraform, GCP Cloud Functions

Libraries & Frameworks: Flask, Docker, Django, FastAPI, Aspose Java, Angular.JS, JQuery, Jenkins

Databases: DynamoDb, MySql, ElasticSearch, Redis

EDUCATION

Indraprastha Institute of Information Technology(IIIT)
Delhi, India

B.Tech. in Computer Science and Applied Mathematics — Aug 2018 – July 2022

With Minor in Computational Biology