

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.
- Developed and maintained Titan, an extraction tool for PDF, DOCX, and LaTeX files, serving as the backbone of Paperpal and supporting over **one million** users.
- Developed five new generative AI features for Paperpal Copilot, leading to a **475% YOY revenue** growth.
- Identified and repaired critical bugs, resulting in a **50% decrease** in system errors 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 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 that retrieves data from the backend, renders it into HTML, and converts it into PDF format.
- Increased Security of microservices by Developing a Gateway API with JWT Authentication, integrating **eight 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 using JavaScript, leading to a **20% increase** in conversion ratio.
- Increased revenue by **5%** through the development of an automated certificate distribution for trek completions.

PROJECTS

Graphical Abstract Generator | [Demo](#)

- Users upload their research articles in PDF format and get a visual representation of their research paper.
- It uses GPT4 to summarize research papers and suggest images, which are then rendered into a template.

AWARDS & ACHIEVEMENTS

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

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

CodinGame: Ranked **1st** in India and **30th** globally on CLASH OF CODE (Jan 2018)

SKILLS

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

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

Libraries & Frameworks: Flask, Docker, Django, FastAPI, Aspose Java, AngularJS, JQuery, Jenkins, Grafana

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