

WORK EXPERIENCE

Amazon

July 2023 – Current

Software Development Engineer

Bengaluru, KA

- **Owned** and managed feature updates and bug fixes for the externally facing Receipt Verification Service ([RVS](#)) in the FireTV monetization team, enabling developers to validate in-app purchases including subscriptions and consumables.
- Developed a new **React Native** application for managing all Amazon subscriptions on FireTV, ensuring compliance with EU regulations. Implemented a new **deeplink** functionality to facilitate seamless navigation into Unsubscribe and Resubscribe workflows in FireTV Prime Video application, enhancing user experience (**UX**).
- Architected and deployed a new external-facing application on **AWS**, leveraging services such as ECS, IAM, NLB, and CloudWatch, demonstrating proficiency in **cloud infrastructure** and **microservices**.
- Developed and maintained **Java Spring Boot** microservices handling 2M+ daily requests, implementing RESTful APIs with 99.99% service availability. Implemented strategic caching using **ElastiCache** to improve latency by 35%
- Developed an automated AMI ID update tool for EC2/ECS services using boto3 on **Python**, winning "Most Innovative Operational Excellence Solution" award on Appstore level for enhancing **AWS** infrastructure management efficiency.

eBay

Jan. 2023 – June 2023

Intern

Bengaluru, KA

- As a member of the Trust Strategy and Organization team at eBay, developed regex and transformer-based **NLP** models using **PyTorch** for policy enforcement, improving pattern detection catch rate by 62%
- Implemented pipeline for automated offender actioning using **PySpark**, **Bash**, and **crontab** for scheduled execution

IBM, India Software Labs

May 2022 – Aug. 2022

Summer Intern

Bengaluru, KA

- Collaborated in the ExtremeBlue program to develop an intelligent solution for efficient provisioning and monitoring of "green" data centers to reduce environmental impact by 23% YoY.
- Implemented a server-side AI module using Keras and a client-side React plugin for optimal data center selection.
- Developed REST APIs for server-client communication and created a data-center simulator using **Docker**, **Python**

EDUCATION

BITS Pilani, K.K Birla Goa Campus

August, 2023

B.E Computer Science Engineering | CGPA: 8.8/10

Zuarinagar, Goa

- **Teaching Assistant:** Deep Learning; Computer Architecture; Principles of Management
- Relevant Courses: Human Computer Interaction; Neural Networks and Fuzzy Logic; Artificial Intelligence; Data Structures and Algorithms; Object Oriented Programming; Computer Networks; Database Systems;

PROJECTS

Research Projects

August 2021 – May 2022

BITS Pilani, K.K Birla Goa Campus

- Developed OCEAN framework using RuLSIF and K-means clustering, reducing 87% probe points while preserving critical emotion data. Research paper accepted at IEEE PerCom 2022 ([Link](#))
- Implemented foveal filters as first pass resolution layer, outperforming standard and other bio-inspired filters in robustness to image perturbations and distortions. Research paper accepted at ICANN 2023 ([Link](#))

Portfolio Website + Miscellaneous Projects

July 2020 – June 2021

- Developed portfolio website which uses **Fast Fluid Dynamics Simulation** for the background. ([Link](#))
- Includes an interactive **discord** bot, an **RL** Flappy Bird agent, **pyGTK** AI opponent connect4 game and other development projects. Previous version of the website ([Link](#)) was built using **gatsby**, **three.js** and **GraphQL**.

SKILLS

Java; JavaScript/TypeScript; React; React Native; AWS; Microservices; Spring Boot; Python; Keras; Bash Scripting; Git; CI/CD (Jenkins); Android; Problem Solving; Communication; Collaboration; Adaptability; Teamwork