

# Anushka Bhandari

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## WORK EXPERIENCE

### Software Engineer

*NativeBridge, Bangalore*

Jul 2025 – Present

- Engineered a custom **TCP proxy** service in Python to intercept ADB requests; implemented **Redis**-backed state management with granular blocking and whitelisting at the proxy level, securing device connections for enterprise clients.
- Architected a real-time **log pipeline** flushing data to Betterstack and AWS Glacier, improving observability and accelerating incident debugging.
- Built a **Dockerized Appium** execution engine (v1 & v2) supporting Python/Java with automated workspace provisioning.
- Built a device analytics system capturing 20+ performance metrics (CPU, FPS, janky frames), reducing ADB overhead by **62%**.
- Implemented **Access Control** for app assets and integrated Slack/Jira/GitHub via OAuth 2.0.
- Successfully executed the **migration** of the entire cloud storage backend from GCS to AWS S3 with zero significant downtime.
- Engineered an **Android Enterprise DPC** solution enabling centralized device management, remote command orchestration, and persistent administrative access using **DevicePolicyManager** and FCM.
- Designed an end-to-end **payment and subscription billing system** handling recurring billing, credits tracking, webhook validation, and automated notifications.
- Tech: **Python, FastAPI, Docker, Appium, MongoDB, React, Vite, AWS (S3, Glacier), GCP (GCS), Websockets.**

### Software Engineering Intern

*NativeBridge, Bangalore*

Jan 2025 - Jul 2025

- Built an AI assistant using **OpenAI APIs** to auto-explain APK installation errors, improving debugging efficiency.
- Designed guest-to-authenticated user linking flow, leading to a **20%** increase in session continuity for returning users.
- Designed and implemented a pre-allocated Android session management system, reducing startup latency by **40%**.
- Deployed** Ghost CMS on a **Google Cloud VM** using Docker, configured **NGINX** reverse proxy, and secured it with SSL (Certbot) for a production-ready setup.
- Designed and deployed a comprehensive user **email engagement service**, supporting over 20+ contextual trigger-based emails.
- Followed RESTful best practices to write production-grade code across **CRUD APIs** for nativebridge.io.
- Tech: **Python, FastAPI, MongoDB, GCP, Docker, Amazon SQS**

## PROJECTS

### BridgeLink – Remote Device Access Platform | [Source Code](#)

Oct 2025 - Nov 2025

- Built a **Python CLI** tool enabling secure remote Android device access via **TCP tunneling** (powered by bore).
- Added a custom API key **authentication** layer on top of bore for secure device access and backend validation.
- Implemented automated health monitoring, device auto-reconnection, and cloud-integrated remote management workflows.

### DaanGo | [Live](#) | [Source Code](#)

May 2024 - June 2024

- Engineered a comprehensive **fundraising** platform using **React.js, Node.js, Express.js, and MongoDB**, facilitating the creation, management, and discovery of fundraisers with integrated **Stripe** donation functionality.
- Integrated **JWT**-based authentication with **OTP**-based email verification via **Nodemailer**.

## SKILLS

**Languages:** Python, C++, JavaScript

**Full-Stack Development:** FastAPI, Node.js, Express.js, React.js, CSS, Tailwind CSS, REST APIs

**Databases:** MongoDB, Redis, MySQL, SQL

**Cloud & Infrastructure:** AWS (S3, Glacier), Google Cloud Platform, Docker, NGINX, Linux

**Core CS Fundamentals:** Data Structures & Algorithms, Object-Oriented Programming, System Design, Operating Systems, DBMS

**Tools & DevOps:** Git, GitHub, Postman, CI/CD Pipelines, VS Code

## EDUCATION

### National Institute of Technology, Jamshedpur

*Bachelor of Technology | CGPA: 8.24*

Jamshedpur, India

2021–2025

## Leadership & Impact

- Core contributor at **NativeBridge**, working in a 4-member startup team to build and ship a production platform used by clients, taking ownership of features from design to deployment with strong focus on user experience and product reliability.
- Mentored contributors in **Code4GovTech** 2024 (Samagra) supporting open-source contributions to the iGOT Karmayogi platform.