

Ajay Lohith Kulla

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Career Objective

B.Tech graduate and motivated Java Developer with strong foundations in Core Java, Spring Boot, and RESTful API development. Experienced in building scalable backend applications and full-stack projects. Eager to contribute to real-world software solutions while continuously learning modern technologies in a collaborative environment.

Skills

- **Languages:** Java, JavaScript, C/C++
- **Backend:** Spring Boot, Spring MVC, Hibernate, Redis, Postman RESTful APIs
- **Frontend:** React.js, HTML, CSS
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Tools:** Git, GitHub, Docker, Firebase, IntelliJ, VS code

Projects

SnapLink – High-Performance URL Shortener

Live | GitHub

- **Architected** a redirect engine using **Spring Boot** and **Redis**, achieving **<10ms** latency via a **Cache-Aside pattern** to optimize high-traffic URL resolution.
- **Implemented Base62 encoding** with **SecureRandom** to support 3.5T+ permutations, utilizing an automated retry logic to resolve **hash collisions** through DB integrity constraints.
- **Engineered** an **IP-based Fixed Window rate limiter** in Redis and custom alias **Regex validation**, ensuring **99.9% system uptime** and protection against API abuse.
- **Designed** a **Fail-Open** architecture to maintain service availability during Redis outages by falling back to indexed **PostgreSQL** lookups and **HTTP 302 redirects**.
- **Tech Stack:** Java, Spring Boot, Redis, PostgreSQL, Docker, RESTful APIs

PlacementPedia – Interview Experience Platform

Live | GitHub

- **Developed** a full-stack **MERN** platform for crowd-sourced interview analytics, increasing user engagement by **30%** through optimized resource accessibility and peer-alumni networking.
- **Implemented JWT-based authentication** with **Role-Based Access Control (RBAC)**, securing sensitive content and reducing authorization vulnerabilities by **25%**.
- **Architected** scalable **RESTful APIs** and designed responsive, mobile-first UI components using **Tailwind CSS**, improving cross-device compatibility and frontend performance.
- **Tech Stack:** MongoDB, Express.js, React, Node.js, JWT, RESTful APIs, Tailwind CSS

CodeList - Secure Task Management Application

Live | GitHub

- **Designed** and developed a secure task management application using **Spring Boot** and **MySQL** to organize, track, and manage daily tasks efficiently, improving task completion consistency by **40%**.
- **Implemented** private user workspaces with **CRUD** operations and task status tracking, enabling effective management of **100+** tasks with improved reliability.
- **Tech Stack:** Java, Spring Boot, MySQL, Docker, REST APIs

Internship

Zidio Web Development (Remote)

Jun 2024 – Jul 2024

- Contributed to full-stack web projects using the MERN stack.
- Built dynamic React components and integrated RESTful APIs.

INDO-GERMAN Institute of Advanced Technology

May 2024 – Jun 2024

- Analyzed microcontroller workflows and documented technical processes.