

# UTKARSH AHUJA

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## Experience

### EL-FI Homes 🏠

Software Engineer Intern

Sept'23 – Nov'23

Remote - California, U.S.

- Developed a customized tool for analysis of solar panels savings with **25% rise** in qualified leads.
- Designed and implemented a **secure admin system** using **NodeJS**, improving content management efficiency by **30%**
- Developed the frontend interface using **Next.js** and **TypeScript**, and visually represented data using **Chart.js**
- Deployed the system on AWS, achieving **99% uptime**, handling high query volumes.

## Projects

### WikiSearch | C++, Information Retrieval



- Search engine processing **25 million** Wikipedia articles with an average response time of **0.3 sec**.
- Achieved a **70% reduction in memory usage** by optimizing indexing techniques and improving data structure efficiency.
- Implemented TF-IDF ranking to retrieve **top 15** articles using **C++ web app** for efficient search functionality.

### MSIT Alumni Association | React, MongoDB, Node, AWS



- Led the development of an alumni management portal, improving data management and user engagement.
- Implemented secure **RESTful APIs** using NodeJS, MongoDB and **JWT** for user authentication
- Integrated **email notifications**, event reminders, and admin panel to manage alumni profiles, events, and news.
- Designed a user-friendly dashboard using **React**, improving user navigation and reducing task completion time by **35%**.

### Avensis'23 | Google OAuth, React, Passport, ExpressJs



- Managed over **5,000** visitors and **1,000+** registrations within 3 days, improving user sign-up process
- Integrated **Google OAuth2.0** with NodeJS for secure login, reducing authentication errors
- Enhanced user experience through optimized UI design with React, driving a **30%** increase in event participation.

## Open Source Contributions

### Appwrite | PHP

- Integrated Zoho **OAuth** Provider to Appwrite Authorization – PR
- Reduced extra data usage in API requests by **15%** through optimizing internal attributes and updating E2E tests. – PR

### MSIT.in | Django, HTML/CSS

- Maintained and updated college website with Django
- Made essential changes to improve user experience on the college website

### IEEE | Software Project Lead



- Led development of the IEEE MSIT website and guided a team of 30+ students in end-to-end software project development, from design to deployment.

## Achievements

- **Finalist - Smart India Hackathon 2023**
- **Ranked Knight (Top 5%)** - LeetCode (ahuja\_utkarsh)
- Ranked **3rd** from 80+ teams in the VIT HackHub 2022 - Project Link
- Achieved **Rank 1736** in CodeKaze September 2023 out of 100k participants

## Skills

C/C++, JavaScript, TypeScript

NextJs, NodeJs, ReactJs, MongoDB, PostgreSQL, Git, TailwindCSS

## Education

### Guru Gobind Singh Indrapastha University

B.Tech. in Information Technology

2021 - 2025

CGPA: 8.6