TARUN KUMAR UPPU

utarun.svct@gmail.com | +91 8810338508 | LinkedIn | Personal Website

EDUCATION

IIT KHARAGPUR   **Jul 2018 - Apr 2022**
- Bachelor of Technology (B.Tech) | Electronics & Electrical Communication Engineering | CGPA: **8.45/10**
- **Computer Science Coursework**: Algorithms, Programming and Data Structures, and Data Analytics

EXPERIENCE

FULL STACK DEVELOPER   **Aug 2022 - Present**
VMock India Private Limited   Gurgaon, Haryana
- Optimized web service latency from **700ms** to **35ms** through **SQL query** enhancements, **database indexing**, **architecture improvements**, and **caching**, enabling **30x** system scale-up with zero downtime
- Re-engineered **monolithic** utility module into a **scalable Python Flask micro services** with a dedicated **API**, containerized using **Docker** and **Kubernetes** to enable decentralized access across system modules
- Redesigned client-specific configuration panels, reducing setup time by **50%** and **doubling** delivery speed through backend restructuring and automation, utilizing **AWS S3** and **AWS SQS** to drive scalable infrastructure
- Built a scheduled analytics system to precompute expensive product metrics, **saving 30+ developer hours/month** and improving performance through thoughtful **system design**
- Enhanced a **Java** application based on client needs and launched **executable(.exe)** across multiple clients
- Researched and Developed **web-push** based push notification system supporting **120+** notification types
- Led **React** frontend development achieving **50%+** uplift in user engagement by implementing intuitive user flows, enhancing data visualizations, and optimizing components for near-instant rendering
- Transformed static login page into **dynamic authentication interface** with **10+** customization options
- Revamped **2** user-facing modules, transforming product usability and simplifying user experience

SUMMER INTERN | SOFTWARE DEVELOPER   **May 2021 - Jun 2021**
Citrix Systems, Inc.   Bangalore, Karnataka
- Acquired hands-on experience with Azure Functions, **Kubernetes**, **Docker**, and different certificate formats

PROJECTS

UPDOWN   Github
- Designed and built a cloud-based file management system using a **three-tier architecture** with a **React.js** frontend, **Python Flask** backend API, and **MySQL** database, leveraging **AWS S3** for file storage
- Implemented comprehensive features including **user authentication**, **search functionality**, and **pagination**
- Rapidly delivered a fully containerized (**Docker)** full stack web application within an aggressive **2 day** timeline

SKILLS

Frameworks: React, jQuery, Bootstrap, Flask, Laravel, Express.js
Tools & Technologies: SQL, NoSQL, Node.js, MongoDB, Git, Figma, Postman, Elasticsearch, Redis, Kafka, uWSGI
Cloud Services: AWS S3 (Storage), AWS SQS (Message Queuing), AWS SNS (Notifications), Docker, Kubernetes
Programming Languages & Concepts: C++, C, Python, PHP, JavaScript, HTML5, CSS3, DSA, OOP, System Design

ACCOMPLISHMENTS

- Achieved **99.8** percentile in **JEE Advanced 2018** and **99.95** percentile in **JEE MAINS 2018**
- Secured **680th** rank in Andhra Pradesh **EAMCET** and **561st** rank in Telangana **EAMCET**
- Solved **500+** Data Structures and Algorithms problems across InterviewBit, LeetCode and geeksforGeeks

CERTIFICATIONS

- Certificate of Completion: **Software Architecture & Design** of Modern Large Scale Systems, Udemy
- **Mastering Data Structures and Algorithms in C and C++, Udemy**: Learned coding in C and C++
- **Docker and Kubernetes, The Complete Guide**, **Udemy**: Learned all about containerization
- **Web Development Bootcamp, Udemy**: Learned complete software development life cycle using React and Node