ADARSH HIREMATH

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EDUCATION

Masters of Science in Computer Science   **December 2024**
Ira A. Fulton Schools of Engineering, Arizona State University (ASU), Tempe, Arizona   3.92/4.0
Experience : Teaching Assistant - CSE 310, MAT 170, Gallery Attendant

Bachelor of Engineering(B.E.) in Information Science and Engineering   **July 2022**
Visvesvaraya Technological University (VTU), Bengaluru, India   8.6/10.0

SKILLS & CERTIFICATIONS

- **Programming Languages:** Java, Python, C++, JavaScript, TypeScript, SQL
- **Distributed & Scalable Systems:** AWS (EC2, Lambda, S3), Azure, Docker, Kubernetes, Redis, FastAPI
- **Database Management & Optimization:** MySQL, PostgreSQL, MongoDB; query optimization, Redis caching
- **Web Development & Frameworks:** Node.js, Express.js, Spring, Flask, Django, React, Angular
- **DevOps & CI/CD:** Jenkins, Git, Azure DevOps, Terraform, CI/CD pipelines
- **Algorithms & DSA:** Proficient in algorithm design, data structures, collaborative filtering, optimization (nonlinear/linear)
- **Testing & Quality Assurance:** JUnit, pytest, Selenium, Mocha
- **Architecture & Methodologies:** Microservices, RESTful APIs, GraphQL, Agile, distributed systems design

EXPERIENCE

Programmer Analyst Intern   **January 2022 - June 2022**
Cognizant   *Bengaluru, India*
- Automated the cloud deployment pipeline for a retail client's inventory management system using Azure DevOps, reducing deployment time by 30% and improving reliability by 20%.
- Optimized CI/CD workflows, integrating automated testing and version control, cutting release cycle time by 23% and boosting release frequency by 17%.
- Collaborated across teams through the SDLC, improving development efficiency by 21% and reducing post-release defects by 15%.

Full-stack Developer   **February 2021 - April 2021**
EducoHire   *Surat, India*
- Architected an educator jobs portal leveraging Django and PostgreSQL, attracting 500+ users in the first month.
- Executed real-time data scraping with BeautifulSoup and Selenium, boosting website traffic by 48% and increasing the user base by 37%, leading to 3000 new job applications.

Web Development Intern   **June 2020- August 2020**
UIPEP Technologies   *Bengaluru, India*
- Revamped key sections of the wrked.com website using ReactJS, HTML, and Bootstrap, enhancing user engagement metrics by 35% within three months.
- Streamlined code quality to achieve a 50% reduction in page load times, improving overall site performance and user satisfaction ratings.

ACADEMIC PROJECTS

Scalable Recommendation System for E-commerce*(Python, Java, EC2, Lambda, S3, Redis, MySQL)*   **September 2024**
- Designed a scalable recommendation system to handle 1,000+ requests/sec, reducing response latency by 40% and increasing throughput by 35% under peak loads.
- Optimized backend performance with Redis caching and MySQL query tuning, decreasing data retrieval times by 45% and improving system uptime to 99.9% during high traffic.

Streamlite-FastAPI-MLSolution (*Streamlit, FastAPI, OpenAI API)*   **July 2024**
- Crafted a Streamlit web app enabling image uploads and artistic style transfer via a FastAPI backend, reducing processing latency by 50%.
- Incorporated multiple artistic style options with robust error handling, improving system stability and reducing processing errors by 40%.

AuthTrack BillingAPI (*ReactJS, FastAPI, Stripe)*   **June 2024**
- Created a FastAPI application with secure token-based authentication and integrated Prometheus for real-time telemetry, reducing system downtime by 35% and optimizing transaction processing speed by 20%.
- Launched a scalable, secure billing system,, increased transaction throughput by 30% while strengthening defenses against unauthorized access.

Automated File Processing app *(AWS-CDK, API Gateway, Cognito, ec2, s3, Lambda)*   **March 2024**
- Built a serverless file processing system supporting 10,000+ monthly uploads to Amazon S3, reducing processing time by 70% and improving throughput capacity by 500%.
- Achieved 80% reduction in manual intervention and decreased average processing time to under 5 minutes, enhancing operational efficiency.

CO-CURRICULAR & ACHIEVEMENTS

- Earned the IMPACT Award (Fall 2024) at ASU for exceptional contributions to campus life and community.
- Secured MORE research funding (Fall 2023) for academic excellence and research potential.
- Led operations and volunteer coordination for SKY at ASU, improving efficiency and student engagement.