HARSH SACHALA

SOFTWARE DEVELOPER - JavaScript, Backend Development & Database

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SKILLS

- **Programming Languages**: JavaScript, C, C++, Python, SQL for backend systems and relational databases.
- **Web Development Tools**: HTML5, CSS3, Bootstrap for responsive web design and component-based layouts.
- **Tools & Platforms**: AWS, Jira, Jenkins, Postman, Docker, GCP for cloud deployment, CI/CD, API testing.
- **Version Control**: GitHub for repository management, branching workflows, pull requests, and code reviews.

WORK EXPERIENCE

Software Developer   **Jan 2023 – Jul 2023**
Billeasy   *India*

- Engineered & maintained 50+ backend APIs for metro and retail clients using StrongLoop, reducing integration errors by 30% and ensuring onboarding of Tim Hortons, Just Dogs & Nagpur Metro within project timelines.
- Refactored inventory management APIs for StrongLoop upgrade, developed CCavenue payment gateway with webhook integration & reduced payment failures 25%, improving query performance with optimized SQL scripts.
- Resolved 200+ client tickets by backtracking replication workflows, delivering 90% first-pass resolution, and documented 100+ API endpoints in Swagger, ensuring consistent developer access during legacy system migration.

Software Developer Intern   **Jun 2020 – Nov 2020**
K.J. Somaiya College of Engineering   *India*

- Led team of 3 to design exam allocation system with backend APIs & random duty algorithm, cutting manual assignment time by 70% & notifying faculty with automated PHP Mailer emails & reminder triggers in sessions.
- Built role-based authentication differentiating admin, faculty, and staff with route permissions, enhancing access security by 40% & ensuring allocation workflows complied with institutional rules across 200+ daily transactions.
- Automated allocation reports with file handling and export functions, eliminating 90% manual checks, integrated backend routes with frontend modules, and reduced data exchange latency by 25% via iterative debugging cycles.

PROJECT EXPERIENCE

Linux Shell
Developer, Ontario

- Built a Linux shell in C using system calls, replicating bash commands and reducing execution latency by 35%.
- Developed commands for terminal spawning and file concatenation, supporting up to 5 files with 100% accuracy.
- Compiled shell into Linux library, enabling rapid command launch & decreasing initialization overhead by 40%.

Video Editing Tool
Developer, Ontario

- Created desktop tool with FFmpeg, OpenCV, C++ achieving trimming, & audio muting with 95% precision.
- Engineered video filters & media controls using OpenGL, enhancing processing speed & frame accuracy by 30%.
- Integrated advertisement insertion pipeline, reducing merge conflicts by 40%, improving preview stability 25%.

Cryptocurrency Investment Scorer
ML & Backend Developer, India

- Designed LSTM model with sentiment analysis on Twitter data, achieving cryptocurrency prediction of 75%.
- Deployed Flask API endpoints & web app integration, reducing inference latency 35% during live model requests.
- Published algorithm in IEEE ICICICT 2022 after optimizing weighted results, improving signals by 20%.

EDUCATION

Master of Applied Computing   Sep 2023 – Dec 2024
University of Windsor, Windsor,

Bachelor of Technology in Information Technology   Aug 2018 – May 2022
K.J. Somaiya College of Engineering, India

CERTIFICATIONS

- **Unix Essential Training** – LinkedIn Learning   Jan 2024
- **Google IT Automation with Python** – Coursera   Jul 2020
- **SQL for Data Science** – Coursera   May 2020
- **Server-side Development with NodeJS, Express, and MongoDB** – Coursera   Apr 2020