

SAMARTH GHULYANI

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EDUCATION

San Jose State University

August 2023 - May 2025

Master of Science in Computer Software Engineering; GPA: 4.0/4.0

San Jose, CA

Coursework: Software Systems Engineering, Enterprise Software Platforms, Cloud Technologies

Guru Gobind Singh Indraprastha University

August 2018 - August 2022

Bachelor of Technology in Information Technology; GPA: 9.08/10.00

Delhi, India

Coursework: Data Structures and Algorithms, Operating Systems, Object Oriented Programming, Database Management Systems, Computer Organization and Architecture, Computer Networks, Compiler Design, Web Technologies

TECHNICAL SKILLS

Programming Languages: C/C++, JavaScript, Python

Web Technologies: HTML, CSS, Sass, REST APIs

Databases: MongoDB, MySQL, Firebase

Cloud Services (AWS): EC2, RDS, S3, Lambda, SNS, Auto-Scaling, DynamoDB, Elastic Beanstalk, Cloudwatch

Testing & Build Tools: Webpack, Babel, Jest

Frameworks & Libraries: ReactJS, Express.js, Node.js, NumPy, Pandas, OpenCV, TensorFlow, Git, Socket.io

WORK EXPERIENCE

Thrifty Software

August 2021 - October 2021

Full Stack Developer | MongoDB, Express.js, ReactJS, Node.js, Redux, REST, Websocket

Noida, India

- Developed a specialized admin control interface for a Swiss startup's social media platform, optimizing data management, and collaborated on their professional networking platform, driving 15% increase in user engagement.
- Adopted agile methodologies, ensuring task completion within sprint deadlines, boosting project delivery efficiency.
- Utilized error-tracking tools, Sentry and SonarQube, cutting system errors by 40%, achieving 99.5% uptime.
- Contributed in daily meetings, fostering collaboration and proposing over 5 innovative features.

Noteshub

April 2019 - January 2020

Content Creator

Delhi, India

- Authored, evaluated, and refined content for the company's notes product, attaining a 25% boost in user satisfaction across 4000+ users, leading to increased engagement and higher retention rates.
- Conducted research with feedback from 1,000+ students, tailoring content for student preferences and requirements.
- Coordinated with internal teams, streamlining 5 major campaign objectives and resolving 25+ content discrepancies.

PUBLICATIONS

A Data Entry Optical Character Recognition Tool Using Convolutional Neural Networks

[Link]

Authors: S. Ghulyani, D. Jain, P. Singh, S. Joshi, and A. Ahlawat

- Co-engineered an OCR tool using CNN, transforming form inputs to structured data with 90% validation accuracy.
- Implemented OCR techniques on the EMNIST dataset, converting image-based text to digital format.
- Resolved OCR challenges such as image clarity and character quality, overseeing end-to-end stages from image pre-processing to data classification, and ensuring optimal recognition accuracy.
- Optimized character detection via contour detection techniques, achieving 94% training accuracy.

PROJECTS

TaskCamp - Task & Team Scheduling Web App

[Link]

Tech Stack: MongoDB, Express.js, React, Redux, Node.js, CSS, Cloudinary, Socket.io

- Developed a 3-tiered user system with distinct Manager, Lead, and Resource roles, streamlining project management, enhancing task assignments, and improving real-time status tracking for team productivity.
- Enabled managers to oversee entire projects while ensuring Leads effectively divide projects and manage team tasks.
- Facilitated efficient workflows by providing Resources an intuitive interface for task tracking and feedback submission.

Crown Clothing

[Link]

Tech Stack: ReactJS, Redux, React Hooks, Context API, Firebase, Stripe API, GraphQL, Jest, Webpack, Babel

- Architected an E-Commerce web application emphasizing responsive design, ensuring a seamless and engaging shopping experience tailored for both desktop and mobile platforms, boosting platform versatility.
- Integrated Progressive Web App (PWA) capabilities, enabling offline access and faster load times.
- Established robust user authentication mechanisms to bolster platform security and streamlined online transactions by integrating Stripe payment gateway, enhancing user convenience during checkout.
- Implemented comprehensive testing, including unit and integration tests, ensuring system reliability and performance.