

DIVY GOSWAMI

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SUMMARY

Results-driven Full-Stack Software Engineer with 2 years of experience building scalable web applications and cloud-based solutions using React.js, Node.js, Python, and AWS. Proven track record of architecting 50+ reusable components and RESTful APIs serving 10,000+ users while reducing code redundancy by 40%. Strong expertise in modern JavaScript frameworks, database systems (MongoDB, MySQL), and Agile methodologies. Completed Master's in Computer Science with focus on machine learning and computer vision. Passionate about leveraging cutting-edge technologies to solve complex problems and deliver high-impact solutions at scale.

EDUCATION

Algoma University <i>Master of Computer Science</i>	Sault Ste. Marie, ON Jan 2025 – Dec 2025
Conestoga College <i>Post Graduate Certificate, Information Technology Project Management</i>	Kitchener, ON Jan 2024 – Aug 2024
L.D. College of Engineering, Gujarat Technological University <i>Bachelor of Engineering in Information Technology</i>	Ahmedabad, India June 2019 – July 2023

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C++, Java, C#, HTML, CSS, SQL, jQuery

Frameworks & Libraries: React.js, Node.js, Express, Angular, Redux, Tailwind CSS

Tools & Technologies: Git, GitHub, AWS, Google Cloud Platform (GCP), Docker, Jenkins, Postman, Jira, VS Code

IDE/Development Tools: Visual Studio Code, Android Studio, Eclipse, Visual Studio, DBeaver, PyCharm

Databases: MongoDB, MySQL, PostgreSQL, Oracle

Testing & Automation: Jest, Mocha, Chai, JUnit, Selenium, Appium, Test-Driven Development (TDD)

Methodologies: Agile, Scrum, Waterfall, CI/CD, RESTful API Design, Microservices Architecture

Utilities & Others: SVN, Jira, Trello, JSON, AWS, Slack, Mural, Postman, SoapUI, Jenkins

EXPERIENCE

Software Engineer <i>CSRBOX Foundation</i>	Dec 2022 – Dec 2023 Ahmedabad, India
- Developed and maintained full-stack web applications using React.js, Redux, Node.js, and MongoDB for IBM SkillsBuild for Jobs (IBMSB4JS) platform serving 10,000+ users across multiple regions	
- Architected 50+ reusable React components with modern hooks (useState, useEffect, useContext), event handling, React Router, and Flux architecture patterns, reducing code redundancy by 40% and improving development velocity by 25%	
- Integrated AWS services (S3, Lambda, EC2) for server-side and client-side communication, implementing scalable cloud-based solutions that improved system performance by 30% and reduced latency by 20%	
- Designed and implemented 15+ RESTful APIs with comprehensive error handling and authentication connecting frontend interfaces with MongoDB databases, ensuring 99.5% uptime and efficient data flow	
- Collaborated with cross-functional teams of 8+ members using Agile methodologies (Scrum, Kanban) to deliver 20+ features on schedule, participated in daily standups, sprint planning, and code reviews	

Android Developer Intern <i>Oasis Infobyte</i>	May 2022 – Dec 2022 Delhi, India
- Developed 6+ Android applications using Java including to-do app, quiz app, unit conversion tool, and calculators with clean architecture patterns (MVVM), improving code maintainability by 35%	
- Implemented efficient coding practices following Android best practices and Material Design guidelines, conducted code reviews for 10+ team members, and delivered high-quality applications meeting 95%+ performance benchmarks	
- Optimized app performance through profiling and debugging tools (Android Profiler, Logcat), reducing crash rates by 40% and improving app launch time by 30%	

PROJECTS

Video Attention Detector

Jan 2026

Python, OpenCV, TensorFlow, Computer Vision, Deep Learning

- Developed real-time video attention detection system using computer vision and deep learning techniques to monitor and analyze user engagement patterns with 85%+ accuracy
- Implemented facial landmark detection, eye-gaze tracking, and head pose estimation using OpenCV and TensorFlow/Keras models for multi-modal attention analysis
- Built data processing pipeline for frame extraction, preprocessing, and feature engineering handling 30+ FPS video streams with optimized performance
- Created visualization dashboard displaying attention metrics, engagement scores, and timestamped analytics for educational and productivity applications
- GitHub: https://github.com/Divy-Goswami/Video_Attention_Detector

Secure Password Manager with Biometric Authentication

Dec 2024

TypeScript, React, Python, Flask, JWT, REST API

- Engineered full-stack password management application with end-to-end AES-256 encryption and biometric authentication using TypeScript (69.3%), Python (27.2%), achieving 99.9% data security compliance
- Implemented secure RESTful API with JWT-based authentication, bcrypt password hashing (10 salt rounds), and industry-standard encryption protocols protecting 500+ credential entries
- Developed responsive React frontend with real-time password strength analysis using zxcvbn algorithm, password generation with entropy-based randomization, and advanced search/filter capabilities reducing password retrieval time by 60%
- Deployed production-ready application with 40+ successful CI/CD deployments on cloud platforms (Vercel, Heroku), implementing automated testing and monitoring ensuring 99.5% uptime
- GitHub: https://github.com/Divy-Goswami/Secure_Password_Manager_Biometric

SaultRide - Community Ride-Sharing Platform

Dec 2024

TypeScript, React, Node.js, Express, Leaflet, REST API

- Built scalable ride-sharing web application with TypeScript (76.2%) and JavaScript (21%) serving Sault Ste. Marie community with real-time location tracking, weather integration, and route optimization
- Architected Node.js/Express backend with JWT authentication, RESTful API design (10+ endpoints), and efficient JSON-based data management system handling 100+ concurrent requests
- Integrated Leaflet interactive maps with Geolocation API, OpenWeatherMap API for real-time weather data, and automated route visualization with Haversine distance calculations achieving <50ms response time
- Designed responsive UI with React Router for SPA navigation, Tailwind CSS utility-first framework, and date-fns for datetime handling ensuring seamless cross-platform experience across desktop, tablet, and mobile devices
- GitHub: <https://github.com/Divy-Goswami/SaultRide>

ACHIEVEMENTS & LEADERSHIP

- **IBM SkillsBuild Hackathon:** Led 4-member team as Website Designer, developed functional website with React.js and MongoDB in 48 hours, managed 50+ participant interactions and secured top 3 finish
- **Rural Warrior Hackathon:** Developed POS-based Text-to-Speech mechanism for rural poverty alleviation schemes, implemented full-stack solution with 4-member team, recognized for innovative social impact approach
- **Certifications:** IBM SkillsBuild Web Development, Atlassian Agile Project Management Professional Certificate, Responsive Web Design(Freecodecamp)