

Girish Bhuteja

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PROFILE

Full-stack developer with 3+ years of hands-on experience designing and deploying web applications and machine learning pipelines using React, FastAPI, Python, and scikit-learn. Experienced in building end-to-end solutions from data pipelines and ML model training through to deployed frontends and REST APIs. Strong project background in accessible web platforms, containerized deployments, and technical team coordination. Available for full-time roles starting August 2026.

HIGHLIGHTS OF QUALIFICATIONS

- Bachelor of Computer Science (Honours) candidate at Conestoga College (3.74 GPA, graduating August 2026) with coursework in software engineering, databases, cloud computing, and AI/ML
- Completed 2 co-op work terms; converted from part-time to co-op based on performance and retained after departmental restructuring
- Deployed 8+ full-stack and ML projects using React, TypeScript, FastAPI, Python, PostgreSQL, AWS EC2, Docker, and Vercel
- Hands-on experience building ML pipelines with scikit-learn, MLflow, and Random Forest, achieving 94.9% classification accuracy on real NASA datasets
- Narhari Sharma Memorial Award recipient; IT Club President and HackTheBrain Director with experience coordinating cross-functional teams

TECHNICAL SKILLS SUMMARY

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

Frameworks & Libraries: React, Next.js, FastAPI, Flask, Node.js, Streamlit, WordPress, REST APIs, WebSocket

AI/ML & Data: TensorFlow, Keras, scikit-learn, MLflow, Pandas, NumPy, Random Forest, MLP, CNN, RNN, Transformers, Autoencoders, GANs, DBSCAN, Clustering, GridSearchCV

Databases: PostgreSQL, SQL Server, MongoDB, MySQL, SQLite

Tools & Infrastructure: AWS (EC2, S3, Athena, Lambda), Azure, Docker, Vercel, Git, GitHub, CI/CD, Postman, Power BI, Power Automate, Selenium

PROFESSIONAL EXPERIENCE

Open Education Technology Project Assistant

Jan 2025 - Present

Conestoga College, Waterloo, ON

Part-time and co-op role; converted to co-op after strong performance; retained after departmental restructuring

- Developed and maintained accessible HTML and CSS templates for Pressbooks, H5P Studio, and WordPress-based open courses, supporting 1,000+ students across Business, Health Sciences, and Community Services programs
- Published 5+ open textbooks and interactive H5P learning objects, increasing student engagement by 20% based on LMS analytics; automated internal workflows using Power Automate and maintained shared GitHub repositories
- Conducted WCAG accessibility audits and managed SharePoint document libraries; reported platform issues and shared implementation feedback with H5P and Pressbooks open-source communities

Web and Tech Integration Specialist (Volunteer)

May 2025 - Present

Olive Branch Mentorship Inc., Cambridge, ON

- Built React components for mentorship matching workflows and implemented Node.js API routes; integrated 5+ third-party APIs and optimized backend architecture to improve platform reliability and data flow
- Diagnosed and resolved frontend and backend issues across browsers and devices, strengthening cross-platform performance and compatibility

PROJECTS

Zonalyze - Business Feasibility Intelligence Platform | github.com/Girish0744/Zonalyze Jan 2026 - Present

- **Stack:** React, TypeScript, FastAPI, PostgreSQL, scikit-learn, Statistics Canada Census, OpenStreetMap API, WebSocket, Docker, LLM | Capstone (In Progress)
- Architected a full-stack platform evaluating business location viability across 26 business types in 552 Ontario municipalities using real Statistics Canada 2021 Census data and live OpenStreetMap competitor and transit feeds
- Built a 45-feature pipeline from raw census files and trained three Random Forest models on generated training scenarios: risk classifier (88% accuracy), revenue regressor ($R^2 = 0.93$), and feasibility scorer; implemented WebSocket real-time updates, an LLM chat interface that explains feasibility scores, and Docker deployment

ETHOS - Autonomous Exoplanet Discovery Pipeline | eth0s.online Jan 2026 - Apr 2026

- **Stack:** Python, Random Forest, MLP, GridSearchCV, MLflow, Streamlit, Flask, AWS EC2
- Built an end-to-end ML pipeline for data preprocessing, model training, evaluation, and deployment, classifying 9,500+ Kepler Space Telescope candidates using the NASA Exoplanet Archive; Random Forest achieved 94.9% accuracy, 95% precision, 94% recall vs. MLP (91.4%) with 5-fold cross-validation on an 80/20 train-test split
- Deployed the champion model on AWS EC2 with Streamlit frontend and Flask backend; implemented MLflow experiment tracking logging 9 performance metrics per run for reproducible model management

AegisGrid - Drone Swarm Threat Prioritization | aegis-grid.vercel.app Apr 2026

- **Stack:** Python, FastAPI, DBSCAN, React, TypeScript, Vercel | ConHacks 2026
- Built a real-time threat simulation dashboard during a 48-hour hackathon: DBSCAN clustering classifies and ranks simulated aerial threats by severity; FastAPI backend for scoring, React/TypeScript frontend for live visualization; deployed on Vercel

EDUCATION

Bachelor of Computer Science (Honours) Sept 2022 - Present

Conestoga College, Waterloo, ON

- GPA: 3.74/4.00; expected graduation August 2026
- Relevant coursework: Software Engineering, OOP, Data Structures and Algorithms, Database Systems, Computer Networks, OS and Security, Cloud Computing, Big Data, AI and Machine Learning, Advanced Topics in AI/ML

EXTRACURRICULAR ACTIVITIES

President, IT Club, Conestoga College Apr 2025 - Present

- Lead the club's annual roadmap of workshops, Build Nights, hackathons, and mentorship programs equipping 100+ students with technical and industry skills; built partnerships with industry professionals and alumni for speaker sessions

Director, Student Success Team, HackTheBrain, Toronto Tech Week Mar 2025 - Jul 2025

- Managed end-to-end participant operations for a 250+ attendee AI hackathon, covering onboarding, team assignments, Discord coordination, and post-event certification

AWARDS AND RECOGNITION

Narhari Sharma Memorial Award | Conestoga College Apr 2026

- Awarded for academic excellence, leadership, and sustained commitment to helping others succeed; nominated by management and colleagues

Helena Webb Mentorship Program | Selected Mentee, Conestoga College Jan 2026 - Apr 2026

- Selected for a structured four-month industry mentorship, recognizing academic achievement and leadership potential

Certifications & Memberships: AI Agents: Intensive Vibe Coding, Google & Kaggle · Java SE, Oracle · OOP Using C++, Infosys · CIPS Ontario Member