Niraj Malokar

Available: 4–12 months beginning May 2026 | 343-558-6459 | nirajmalokar@gmail.com | linkedin.com/in/niraj-malokar | github.com/NirajMalokar21 | portfolio-website

EDUCATION

Carleton University   Ottawa, ON
Bachelor of Computer Science, Honors, AI & ML stream   *Sep. 2022 – Present*
- 4th year standing, GPA: 10.95/12.00
- International Excellence Award, Academic Deans' Honor List

EXPERIENCE

Freelance Web Developer   July 2025
The Cover Up Project (TCUP)   *Remote*
- Diagnosed and optimized **WordPress WooCommerce** performance, evaluating theme upgrades, redesign options, and optimization strategies with non-technical clients.
- Upgraded **PHP** version, replaced **WooCommerce AJAX cart fragments** with a custom lightweight **JavaScript/cart update solution**, and enabled **server-side caching** for bundled products.
- Achieved a **20–30% site speed improvement**, verified using **GTMetrix** performance benchmarking.

Application Developer Intern   Sep. 2024 – Dec. 2024
CIBC   *Toronto, ON*
- Explored and implemented tools like **JIRA** for **Agile project management** and **Microsoft Azure** through CIBC's training modules.
- Collaborated on **Python automation scripts** to process upstream application data.
- Created and managed **change tickets** using **ServiceNow**, coordinated approvals with managers, and presented business impacts during approval meetings, gaining insights into the full **application development and testing lifecycle.**

PROJECTS

Patient Management Microservices Application | *Spring Boot, Spring Cloud, Docker, Kafka, AWS*   June 2025
- Developed and deployed a **microservices-based healthcare application** using **Spring Boot**, **Spring Cloud Gateway**, and **Spring Security**, implementing **REST APIs**, **gRPC inter-service communication**, **Kafka messaging**, and **JWT-based authentication/authorization.**
- Containerized **microservices** and **databases** (**Postgres**, **Kafka**, Patient-Service, Auth-Service) with **Docker** & **Docker Compose**, ensuring seamless service discovery, and networking.
- Integrated **AWS services** via **Infrastructure as Code (AWS CDK & LocalStack)**, provisioning **ECS (Fargate)**, **RDS**, **MSK (Kafka)**, **VPCs**, and **ALB**, while adding **Swagger API documentation**, **integration testing (JUnit, Testcontainers)**, and **CI/CD–ready configurations** for scalable deployment.

Photo Culling App | *Python, OpenCV, NumPy, Pandas, SciKitLearn, PyQt, PyInstaller*   Sep 2025
- Developed a **cross-format image culling tool** with a **PyQt** GUI, which automatically removes low-quality images from folders and supports all common image formats; packaged as a standalone app with **PyInstaller** and deployed on GitHub for download.
- Performed **exploratory data analysis (EDA)** and engineered hand-crafted features (sharpness, brightness, color statistics, entropy, edge density) from images to quantify perceptual quality.
- Built and tuned a **Gradient Boosting model** with **hyperparameter optimization**, achieving a **test MSE of 0.58** versus baseline of 1.59.

Dev-Overflow | *Next.js, TailwindCSS, MongoDB, Node.js, TypeScript*   June 2024
- Created a responsive full-stack app where users can ask and post questions
- Implemented MongoDB queries to develop a recommendation algorithm
- Added features such as pagination, filtering, and local/global search using search parameters

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, C, C++, SQL, HTML/CSS
Frameworks: Spring, React, Next.js, Node.js, TailwindCSS, REST API
Tools: Git, Docker, Jupyter, Kubernetes, AWS, Kafka, JWT-auth, JUnit, gRPC, JIRA
Libraries: Pandas, NumPy, Matplotlib, SciKitLearn, GSAP, shad-cn