

Dharma Kevadiya | Software Engineer

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SKILLS

<b>Programming Language:</b> C, C++, Python, Java, JavaScript, TypeScript	<b>DevOps Tools:</b> Docker, Kubernetes, GCP DevOps, GitHub Actions, CloudFormation, Splunk
<b>Frameworks:</b> TensorFlow, PyTorch, Spring Boot, JUnit, Mockito, Django, PyTest, React, Redux, NodeJS, Hibernate	<b>Databases Systems:</b> SQL (MySQL, RDS, Cloud SQL), NoSQL (MongoDB, DynamoDB), PostgreSQL
<b>Cloud Technologies:</b> AWS (Cognito, EC2, Lambda, S3, SageMaker, OpenSearch, DynamoDB, SQS/SNS), GCP (Pub/Sub/CloudRun)	<b>Project Management:</b> SDLC, Agile, Scrum, JIRA, Git (GitHub, GitLab)
<b>Embedded &amp; Real-Time:</b> ARM Cortex-M, interrupt-driven drivers, RTOS, real-time processing	<b>Other:</b> Code Review, Postman, Linux (Ubuntu), Test Driven Development (TDD), Microservices, <b>Object-Oriented Software, Visual Studio Code.</b>

EXPERIENCE

<b>HireUp Tech Careers, India</b> Software Engineer	<b>, Jan 2024 – Dec 2024</b>
<ul style="list-style-type: none"><li>Wrote unit tests for existing <b>C++</b> sensor drivers using <b>Google Test framework</b> on STM32F407 development board. Fixed <b>3 memory leak</b> bugs and improved <b>test coverage from 65% to 78%</b> under senior developer guidance.</li><li>Assisted with Ethernet packet debugging using <b>Wireshark</b> to analyze MPLS traffic patterns. <b>Documented 15 network anomalies</b> and helped validate packet parser fixes in the lab environment.</li><li>Added automated test scripts to existing <b>GitLab CI</b> pipeline for sensor data validation. Reduced manual testing time for release cycle through <b>pytest automation</b> scripts.</li><li>Performed load testing on <b>TensorFlow</b> inference service in development environment. Identified performance bottleneck in data preprocessing that senior team optimized for <b>8% improvement</b>.</li></ul>	
<b>Mobilix Solutions, India</b> Software Engineer Intern	<b>, Jun 2022 – Dec 2022</b>
<ul style="list-style-type: none"><li>Contributed to <b>Do Teen Panch (Android game; 10k+ installs)</b> by delivering scoped features across the <b>Java REST backend</b> and <b>TypeScript UI</b>, ensuring reliable functionality and user experience.</li><li>Developed and tested <b>list/detail endpoints with pagination</b> for the “<b>Chip for Sale</b>” storefront under mentor guidance, while reviewing technical design notes to align with best practices.</li><li>Constructed and integrated <b>TypeScript UI components</b> per product specifications, actively engaging in <b>Agile routines</b> (standups, sprint planning, peer code reviews) and managing version control through <b>Git</b>.</li></ul>	

PROJECTS

<b>BugBoard</b>   Collaborative bug tracking & live-debugging platform   <b>Github</b> <b>Tools:</b> React + Spring Boot, MySQL, Docker, GitLab (story points, planned sprint work ), <b>Designite, JUnit</b> , Autoprefixer, Playwright. <ul style="list-style-type: none"><li>Built React + Spring Boot app with a real-time Monaco editor (Firebase RTDB); delivered REST APIs in <b>Agile/TDD with 86% JUnit coverage</b>; fixed <b>30+ code smells</b> (Designite, SOLID); ensured cross-browser support (Autoprefixer, validated with Playwright).</li><li>Set up a simple <b>GitLab CI/CD pipeline</b> that builds the app, runs tests, publishes a <b>Docker</b> image, and deploys on university VM.</li></ul>
<b>Knowledge Distillation</b>  Adaptive CIFAR-10 Distillation Pipeline   <b>Github</b> <b>Tools:</b> Python, PyTorch, Image Classification, Tqdm, Scikit-learn. <ul style="list-style-type: none"><li>Distilled CIFAR-10 knowledge from <b>ResNet-18</b> to a 5-layer CNN using <b>CE+KD+hint losses</b> and an adaptive <math>\beta</math> schedule, boosting <b>accuracy by 7.3%</b>.</li><li>Employed activation-variance selective hinting and <math>1\times 1</math> projections in a checkpointed pipeline to cut <b>memory use by 60%</b> with stable convergence.</li></ul>
<b>Medilink</b>  Telehealth Video Call Platform   <b>Github</b> <b>Tools:</b> Node.js, React/Express, Twilio Video, JWT, OWASP ZAP, JMeter, MongoDB, GitHub. <ul style="list-style-type: none"><li>Built secure, <b>tokenized</b> video rooms with <b>role-based</b> links, waiting room, and in-call controls; doctor-only record uploads and nearby-pharmacy finder.</li><li>Turn requirements into functional specs, documented components in <b>Swagger</b>, ran OWASP ZAP (security) and <b>JMeter performance tests for 500+ concurrent users</b>, and did basic cross-browser validation (<b>Agile</b>; code reviews with Teaching Assistance).</li></ul>
<b>Multimodal Assistant Chat</b>   AI-Powered Platform   <b>Github</b> <b>Tools:</b> React, TypeScript, <b>Next.js</b> , OpenAI Assistants API, Python (FastAPI, Pandas), AWS (Cognito, Lambda, S3, CloudFormation), Splunk, Selenium, VMware. <ul style="list-style-type: none"><li>Made a multimodal chat platform with AI-driven <b>file analysis</b>, vision support, and Python <b>microservices</b> for data insights, deployed on AWS with automated infra provisioning and <b>Splunk</b>-based monitoring.</li><li>Automated <b>UI testing</b> with <b>Selenium</b> and validated production-ready deployments in <b>VMware</b> lab environments for scalability and fault tolerance.</li></ul>

EDUCATION

<b>Dalhousie University</b>   Master of Applied Computer Science (GPA: 4.05),	Jan 2025 - Present
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