

SHANMUKHA C G KUMAR MAGAPU

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PROFESSIONAL SUMMARY

Full Stack Developer and Software Engineer with 3+ years of experience building scalable web applications, backend APIs, automation workflows, and multi-tenant platforms. Currently pursuing an M.S. in Computer and Information Science at the University of Michigan while working as a Graduate Research Assistant and Software Engineer. Authorized to work on OPT and STEM OPT in the U.S. with no sponsorship required through May 2029.

SKILLS

Languages: JavaScript, TypeScript, Python, C#, Java, C++, SQL, Go (learning)

Web & Frameworks: React, Next.js, Node.js, Express, NestJS, Flask, .NET Core, React Native

Backend & Data: REST APIs, PostgreSQL, MongoDB, SQL Server, Redis, Firebase, RBAC, API Validation

Cloud/Infra: AWS (EC2, Lambda, S3, RDS), Docker, Kubernetes (familiar), Terraform (basic), GitHub Actions, CI/CD

Tools: Git, Jira, Postman, Figma, VS Code, Slack Integrations, Analytics Dashboards

Concepts: OOP, Microservices, SDLC, Test Automation, Observability, Authentication/Authorization, System Design

Professional Skills: Cross-functional Team Collaboration, Problem Solving, Communication, Agile Development, Ownership, Adaptability, Debugging, Analytical Thinking

WORK EXPERIENCE

Mercor, Software Engineer (Contract)

Dec 2025 – Present

Remote

- Worked on Project Colosseum across multiple client-facing workflows where manual testing, recurring bugs, and codebase vulnerabilities were reducing engineering efficiency and slowing releases.
- Built evaluation frameworks, automated testing and pull-request workflows, and created an analytics tool to measure progress, optimization levels, and code quality before and after changes.
- Improved team efficiency by 40%+, reduced human effort in testing and PR processes by 60%, and significantly lowered bugs and vulnerabilities across the codebase.

University of Michigan–Dearborn, Graduate Research Assistant — Web and Systems

May 2025 – Present

Dearborn, MI

- Supported development of a workbench that compares code optimized by humans, LLMs, and agents, where the team lacked a clear real-time analytics dashboard and automated result-tracking workflow.
- Built the full-stack workflow for real-time database fetching, experiment tracking, automated execution updates, and Slack notifications for pass/fail results after testing.
- Improved workflow clarity, monitoring, and ease of use by 35%, making experiment visibility and backend operations more reliable and scalable for the research team.

GoMicro — AI Quality Analysis Company, Software Developer Intern — Full Stack

Jun 2025 – Sep 2025

Remote

- Joined a fast-moving product environment that needed reusable engineering components, stronger test coverage, and more stable release quality across frequent iterations.
- Developed reusable backend and UI features using Node.js and React, and wrote 50+ unit and integration tests to strengthen validation across releases.
- Reduced manual QA effort by 70%, achieved 90% test coverage in key areas, and helped ship more stable production-ready increments with fewer regressions.

ThePortfolio, PasteElement, DesignByte, Founding Software Engineer — Full Stack and Product Platforms

Jan 2023 – Dec 2024

Hybrid

- Identified the need for accessible digital products for students, developers, designers, creators, and brands that lacked simple, scalable tools to build portfolio, content, and business presence online.
- Built multiple production platforms from scratch, including multi-tenant products, dashboards, secure authentication flows, AI-powered tools, and CI/CD-backed workflows across ThePortfolio, PasteElement, and DesignByte.
- Supported 3,000+ users and creators, enabled zero-downtime weekly deployments, and reduced build time and defects by 35% through 20+ standardized UI and workflow modules.

Legal Seva — Legal Tech Startup, Frontend Developer Intern — React Native and Firebase

Aug 2022 – Jan 2023

Remote

- Joined when the application needed separate dashboards for clients, lawyers, and admins, along with a more user-friendly messaging and communication experience inside the platform.
- Implemented dashboard workflows, integrated messaging APIs, and contributed to in-app real-time communication and video-conferencing modules for smoother collaboration.
- Improved application efficiency by 70%+, increased client retention by 60%+, and contributed to stronger product adoption and revenue growth through better user experience.

PROJECTS

ThePortfolyo, [View Project](#)

- Built a no-code portfolio builder for users who wanted a professional digital presence without coding or hosting knowledge.
- Launched CMS-backed workflows, authentication, dashboards, and user-friendly editing experiences, onboarding 50+ users in the first week.

DesignByte Studio, [View Project](#)

- Created product experiences and internal tools for growing brands that needed a structured partner across strategy, UI/UX, development, analytics, and AI-led experiments.
- Helped translate design and growth problems into measurable digital solutions across security, sports, edtech, developer tools, and AI use cases.

PasteElement

- ~~View Project~~ Built a secure content-sharing platform using NestJS and PostgreSQL for developers who needed reliable access control, auditability, and structured workflows for shared content.
- Implemented RBAC, API validation, and structured error handling to improve reliability, maintainability, and secure product behavior.

Optimization Benchmark Suite (C++),

- Automated benchmarking workflows with C++, Docker, and Python scripting so teams could compare algorithm performance in a repeatable way.
- Improved reliability of runtime comparisons and helped identify optimization opportunities across software components.

ACHIEVEMENTS

- Gold Medalist in B.Tech Computer Science with a CGPA of 3.93.
- Published work in Full Stack ML Infrastructure for Real-Time Fraud Detection and CBDC and Application Development (UI + API).

EDUCATION

University of Michigan–Dearborn, M.S. in Computer & Information Science, CGPA: 3.9

Aug 2024 – Present

Dearborn, MI

- Built distributed systems and secure web applications; improved API response times by 30% through better data flows and validations.

University of Engineering and Management, Kolkata, B.Tech in Computer Science, CGPA: 3.93

Aug 2020 – May 2024

Kolkata, IN

- Built an automation platform using MERN and .NET, reducing manual effort by 60%; graduated as Gold Medalist.

CERTIFICATIONS

- AWS Certified Cloud Practitioner — Amazon Web Services
- IBM Full Stack Developer Professional Certificate — IBM / MyCaptain
- Responsive Web Design Certification — FreeCodeCamp
- Agile with Jira and Confluence — LinkedIn Learning

REFERENCES

- Krish Murga — Chief Technical Officer, GoMicro — krish@gomicro.ai — +1 (413) 822-0566
- Sivam Krish — Chief Engineering Officer, GoMicro — sivam@gomicro.ai — +61 401 192 100
- Gaurav — Co-Founder, ThePortfolyo — admin@theportfolyo.com — +91 85820 42402
- CTO — Legal Seva — careers@legalseva.org — +91 81279 07409

Shanmukha C G Kumar Magapu
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January 2026

Subject: Application Cover Letter

Dear Hiring Team,

I'm Shanmukha C G Kumar Magapu, a Software Engineer and an M.S. Computer and Information Science student at the University of Michigan–Dearborn (CGPA: 3.9), graduating Spring 2026. I enjoy building software that people rely on every day—systems where correctness, performance, and long-term maintainability matter as much as delivering features. Across startups, research, and professional teams, I've taken ownership of real systems and learned what it means to support production code used by real users.

My background is strongly hands-on and engineering-focused. As a Graduate Research Assistant at the University of Michigan–Dearborn, I worked on web and systems projects involving distributed APIs, where I refactored data flows, added stronger validations, and improved throughput by 25%. I've applied REST and microservices principles, designed modular service layers, and built test-driven pipelines that made backend systems easier to deploy and maintain.

Previously, as a Software Developer Intern at GoMicro (AI quality analysis), I worked across the full stack using Node.js and React to deliver reusable features, automate workflows, and reduce manual QA effort by 70%. I wrote over 50 unit and integration tests achieving 90% coverage, supported weekly releases, and collaborated closely with cross-functional teams to debug and stabilize production systems.

In parallel, I've served as a founding engineer across products including ThePortfolyo, PasteElement, and DesignByte. In these roles, I built multi-tenant platforms with authentication, role-based access control, data-backed workflows, and CI/CD pipelines supporting frequent, zero-downtime releases. These experiences strengthened my ability to handle ambiguity, communicate clearly, and stay calm when production issues arise—because user trust depends on reliability.

Technically, I work comfortably across TypeScript, JavaScript, React, Node.js, REST APIs, SQL databases, and AWS (EC2, Lambda, S3, RDS). I care deeply about code quality, testing, observability, and documentation, and I enjoy turning loosely defined requirements into clean, scalable implementations that teams can confidently build on.

You can review my work here:

- Portfolio: shanmukh-magapu-portfolio.netlify.app
- GitHub (Personal): github.com/SHANMUKH405
- LinkedIn: linkedin.com/in/shanmukh-magapu-a6639520b
- Startup GitHub: github.com/ThePortfolyo
- Startup Site: theportfolyo.com
- Work Samples (DesignByte): studio.designbyte.dev

Work authorization and location:

I am currently in the United States on an F-1 student visa and plan to work on OPT and STEM OPT after graduation. I will not require employer sponsorship for employment authorization through May 2029. I am open to on-site, hybrid, or remote work depending on team needs.

Thank you for your time and consideration. I would welcome the opportunity for an interview and later on to contribute as a software engineer who brings strong coding fundamentals, cloud experience, and production-minded ownership to your team.

Sincerely,

Shanmukha C G Kumar Magapu

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