

Hemang Murugan

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SUMMARY

Front-End Engineer with 3+ years building responsive, accessible, scalable UIs using React, Next.js, and TypeScript. Developed shared component libraries and design systems shipped across 10,000+ devices. Embraces AI-first engineering workflows using AI tools to accelerate development, testing, and code quality.

TECHNICAL SKILLS

Frontend: React, Next.js, TypeScript, JavaScript, HTML, CSS, Tailwind, Responsive Design, Accessibility (a11y)
Design Systems: Component Libraries, Design Systems, CSS-in-JS, Layout, Typography, Cross-Browser Compat.
AI-First Tooling: Claude Code, GitHub Copilot, AI-Assisted Testing/Refactoring, LLMs, Streaming, SSE
APIs & Backend: REST, GraphQL, SSE, Node.js, Spring Boot, Python, PostgreSQL, MongoDB, Supabase
Tools: Git, CI/CD, GitHub Actions, Docker, AWS, Automated Testing, ESLint, Linux

EDUCATION

Northeastern University

Master's in Computer and Information Sciences

Boston, MA

Jan 2025 - 2027

Bannari Amman Institute of Technology, Anna University

Bachelor of Engineering in Computer Science and Engineering

Tamil Nadu, India

Aug 2018 - May 2022

WORK EXPERIENCE

Ticker

Mobile Application Intern

New Jersey, USA

May 2026 - Jun 2026

- Engineered responsive UI components (React Native/Expo, TypeScript) with Spring Boot microservices. Developed shared component library for product consistency. Used AI-first tooling to accelerate development and code quality.

Morbium Technologies

Lead Software Engineer, Co-founder

Coimbatore, India

Sep 2022 - Nov 2024

- Built responsive, scalable UIs using React, Next.js, and TypeScript across 8+ products on 10,000+ devices. Developed shared component libraries and design systems supporting consistency across all products.
- Integrated with backend APIs (REST, GraphQL, SSE) ensuring smooth frontend-backend communication. Built realtime, streaming AI-first components for dynamic workflows and chat-based interfaces.
- Collaborated with Product and Design to translate wireframes into production-ready features. Optimized performance, cross-browser compatibility, and accessibility with responsive layouts.

Innotek Automation

Full-Stack Developer

Bangalore, India

Dec 2021 - Sep 2022

- Built scalable frontend with React and TypeScript, integrating REST APIs alongside backend teams. Wrote clean, maintainable, testable code with Git and CI/CD.
- Optimized rendering performance, cross-browser compatibility, and responsive design at scale.

Hyperwork

Software Engineer Intern

Emden, Germany

Aug 2021 - Nov 2021

- Shipped a web application with React.js and Node.js, implementing responsive design and accessibility in a fast-moving startup.

NOTABLE PROJECTS

Frostty - AI-First Dev Tool | TypeScript, React, LLMs, Streaming, AI Tooling

Dec 2025 - Feb 2026

- Built an AI-first developer tool with realtime streaming components, multi-turn conversation state, and dynamic message flows (Claude, GPT-4, Gemini). Used AI-augmented workflows to accelerate development.

GameTales | React, Next.js, TypeScript, Node.js, PostgreSQL

Summer 2025

- Shipped a polished SaaS product with React/Next.js, integrating REST and streaming APIs for AI content. Built shared component library with responsive, accessible design.

Keyvy - Cross-Platform App | React Native, TypeScript, Kotlin

Nov 2024 - Jan 2025

- Developed a cross-platform app with reusable component architecture, responsive layouts, and optimized performance across device form factors.

ACHIEVEMENTS & RECOGNITION

Competition Awards: First place - MHRD Mega Online Challenge 2020, Smart India Hackathon 2019 — Third place - Hack and Tackle 2.0

Funding & Patents: \$25,000 research funding for Washbot project — Patent filed for personal safety device (202141025203)

Certifications: Cyber Security Professional - Lucideus