

# Karthik Rammoorthy

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## Professional Summary

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*“Senior Software Engineer with a 10-year track record of developing responsive, test-driven, enterprise-grade full-stack solutions across the entire software lifecycle. Drives productivity and quality through AI-augmented development and iterative refinement. Prioritizes accountability, goal driven and user centric approach in solving business statements.”*

## Work Experience

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### Benevity, Inc.

SENIOR SOFTWARE ENGINEER

Toronto, Canada

Apr 2022 - Present

- Identity & Access Management services (IAM): Implemented centralized authentication and authorization services using Spring Boot, Vue 3, and CockroachDB in code-first hexagonal architecture. Simplified the login experience through federated SSO access for clients, leading to a measurable reduction in client support tickets.
- Product Engineering (Volunteering & Causes): Contributed to high impact features within the volunteering and causes applications, utilizing a diverse tech stack including .NET Core, Spring Boot, PostgreSQL and Vue 3. Delivered scalable, cohesive modules that support mission-critical social governance applications.
- Performance & Load Testing: Ensured high-availability and system resilience during high-traffic global events like Giving Tuesday (approx 2500 logins per minute) by conducting rigorous load testing using Locust and JMeter, coupled with New Relic and OpenSearch integration with AWS Cloudwatch for real-time monitoring.
- AI-Augmented Engineering: Leveraged Cursor AI and MCP connectors (Jira, GitHub, Sonar) to accelerate development velocity and streamline the implementation of complex technical requirements.
- Technical Product Leadership: Translated high-level Jira user stories into precise AI Intent Specs, driving automated implementation, rigorous testing, and consistent code quality.
- Operational Excellence: Managed automated CI/CD pipelines using Jenkins and GitHub for blue-green deployments on AWS using Terraform.
- Infrastructure as Code (IaC): Streamlined identity infrastructure by managing Auth0 organizations, federated access, and IdP integrations through Terraform, enhancing security for PII-level data.
- Mentorship & Collaboration: Actively mentored developers through structured technical guidance, peer programming, and maintaining comprehensive Confluence documentation.
- Participated in scheduled on-call support rotations and coordinating with production deployments.

### AOT Technologies

APPLICATION DEVELOPER

Victoria, Canada

Jan 2021 - Apr 2022

- Public Sector Solutioning: Engineered a modern web application for the BC government, utilizing Vue 3 (Composition API) for a responsive, mobile-first UI and Python Flask for robust RESTful endpoints.
- Cloud-Native Deployment: Deployed and managed the application suite on Red Hat OpenShift (on-premise data center), leveraging Docker and GitHub Actions for CI/CD automation. Streamlined the release lifecycle to ensure high availability.

## Axis Capital

Halifax, Canada

FULL STACK DEVELOPER

June 2020 - Jan 2021

- Legacy-to-Web Migration: Spearheaded the transition of the "Contracts Builder" application from a legacy desktop system to a modern, scalable, and mobile-first web platform using Angular and .NET Core. Impact: Empowered reinsurance brokers and actuaries to manage complex contracts on the go, removing the limitations of office-bound hardware.
- Reactive Frontend Architecture: Architected the web interface using Angular, RxJS for complex state management, and Angular Material for a component-based UI. Impact: Delivered a highly responsive, data-heavy dashboard that allowed actuaries to process and visualize contract variables with improved speed and accuracy.
- DevOps Integration: Streamlined deployment workflows by implementing continuous integration and automated releases via AWS and GitHub. Impact: Reduced deployment friction and ensured high availability for mission-critical insurance tools during high-volume contract cycles.

## CGI

Halifax, Canada

CONSULTANT

May 2019 - Jun 2020

- Worked on core modules for an aerospace application, including flight route and tripkit management, utilizing Vue 2 with a Vuex store, a .NET Core API, and spatial data with SpatiaLite and OpenLayers.
- Engineered a scalable deployment pipeline by writing Terraform for AWS infrastructure, deploying .NET Core REST endpoints to AWS API Gateway via VPC Links, CloudFront, and ECS.
- Spearheaded the UI development for a claims management application, delivering a responsive, mobile-first design using Angular 7, Angular Material, and Sass to create a dynamic, theme-aware user experience.
- Developed and secured robust RESTful APIs with a .NET Core API, implementing JWT authentication middleware and a code-first approach with EFCore.
- Ensured high code quality and test coverage across all projects by using SonarQube and employing test suites like Jest, Vue-Test-Utils, and NUnit with Moq for unit testing, in addition to basic Selenium automated UI tests.

## Tata Consultancy Services

Chennai, India

SYSTEMS ENGINEER

Oct 2013 - Dec 2017

- Assisted in the development of a Single-Page Application (SPA), writing clean, well-structured code with Angular and building backend services with ASP.NET API to support key features.
- Collaborated on a legacy migration project, helping to transition a VB 6 application to VB.Net and gaining hands-on experience with modernizing enterprise-level software

## UI Skills

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### Languages

Javascript, Typescript

### Frameworks

Vue 3 (Composition API), Angular 18+

### State Management

Pinia, Vuex, NgRx, Signals, NgRx

### Testing Frameworks

Jest, Vitest, Vue Test Utils, Testing Library, Jest, Fakerjs

### Validation & Schema

Zod, Vee-Validate, Vuelidate

### Source Control

SourceTree tool using Github, BitBucket

### E2e Testing

Cypress

### IDE

Visual Studio Code, Cursor AI IDE

### Build & Bundling

Vite, Lerna (Monorepo), Webpack

### Code Quality

ESLint, Stylelint, Prettier, SonarQube, Husky

## Backend and Infra Skills

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API	Java Springboot, C# .Net Core, Python Flask
DBMS	MySQL, PostgreSQL, Cockroach DB.
Auth & Feature Flags	Auth0, Keycloak, LaunchDarkly
API Tools	OpenAPI Generator(Swagger), JSON:API Serializer
Cloud	AWS
Cache	Redis
Messaging	RabbitMQ, AWS SQS
CI/CD	GitHub, Jenkins, Atlantis, Docker, Kubernetes.
Infrastructure as code	Terraform
Incident Management	Firehydrant, PagerDuty.
Observability	New Relic, Opensearch(From Cloudwatch)
ORMs	JPA, EF Core, SQLAlchemy.
Load Testing	Locust, JMeter

## Education

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### Dalhousie University

MASTER OF APPLIED COMPUTER SCIENCE

*Halifax, Canada*

*Jan 2018 - Apr 2019*

### RMD Engineering College (Anna University)

BACHELOR OF ENGINEERING IN CS

*Chennai, India*

*Jul 2009 - Apr 2013*