

HEMANTH RACHAPALLI

Software Engineer

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

EDUCATION

Lovely Professional University
B.Tech in Computer Science
CGPA: 7.7

Phagwara, IN
June 2020 – June 2024

EXPERIENCE

Datopic | Software Engineer

Mohali | March 2024 – Present

- Contributed to the development of Chrome browser extensions, improving user experience and functionality.
- Collaborated in designing and building backend architecture for client applications.
- Managed and developed microservice architecture focused on scalability and maintainability.

SKILLS

Programming Languages: JavaScript, TypeScript, Java, Go
Libraries / Frameworks: Express, Node.js, Socket.io, TurboRepo, NestJS, Deno
Tools / Platforms: AWS/GCP, Redis, Nginx, Kafka, Elasticsearch
Databases: MySQL, MongoDB, PostgreSQL
Utilities: Jest, PM2, N8N, New Relic

PROJECTS

Chrome Plugin Development

ChromeRules, JavaScript, AWS, Node, Express, MongoDB

- Developed an extension with anti-tracking and ad-blocking features to improve privacy and browsing experience.
- Contributed to user data collection and browser fingerprinting detection mechanisms.
- Implemented a user preference system allowing whitelisted URLs to bypass extension privacy filters.
- Managed user sessions via Express session management, providing full server-side control.
- Implemented secure login, integrated blockchain-based signup, and added two-factor authentication via email.

Monitoring Web Application

JavaScript, Node, Express, Postgres, Sockets, Knex, REST API

- Migrated the database from SQLite to PostgreSQL and added ORM support for compatibility.
- Implemented multi-user login and SSO integration for seamless access across internal applications.
- Integrated sockets for real-time monitoring data rendering at the client side.
- Built a notification system with Telegram and Slack integration to track user monitor activity.

Subscription Management Microservice

TypeScript, Node, Express, Postgres, Webhooks, REST API

- Implemented a service to manage subscription payments and access control across five applications.
- Integrated Stripe for payment processing and built APIs for managing subscription lifecycles.
- Automated onboarding to in-house applications after payment, enabling SSO and credential delivery.
- Designed tier-based access control with feature visibility on user dashboards.

OPEN SOURCE & PERSONAL PROJECTS

- Contributed to **Uptime Kuma** through issue reporting and pull requests aligned with community guidelines.
- Developed a production-ready Node.js **Boilerplate** where API documentation is automatically generated from Zod validation schemas, eliminating manual documentation effort.
- Hosted and managed the service within a private **VPC**, ensuring secure and isolated deployment environments.