

# Preetham P

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## Skills

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**Languages & Frameworks:** JavaScript (ES6+), TypeScript, Node.js, Express.js, React.js, Kafka

**Databases:** PostgreSQL, Redis, MongoDB

**Testing:** Unit Testing, Integration Testing, Jest, k6

**Monitoring & Observability:** CloudWatch, Kibana, Grafana, Log-based monitoring and debugging

**Devops & Tooling:** Docker, Kubernetes, Git, GitHub Actions (CI/CD)

**Architecture & Concepts:** RESTful APIs, Scalable API design, Backend performance optimization, Authentication & Authorization, Object-Oriented Programming (OOP)

## Experience

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### Software Engineer | Accenture

July 06 2023 to Feb 23 2026

- Implemented production-grade caching using Redis to replace local in-memory caches, improving cache consistency across services and reducing average response times by **25–30%** under load.
- Implemented a Kafka-based scheduler to emit time-driven events for backend workflows, improving processing reliability and reducing manual intervention by **20%**.
- Contributed to migrating backend services from on-prem infrastructure to AWS EKS by containerizing applications and configuring deployments across non-production environments, reducing deployment setup time by **40%**.
- Tuned database performance by analyzing query patterns and introducing global and secondary indexes for high-traffic APIs, cutting critical query latency by **35–45%**.
- Established centralized error-handling mechanisms in Node.js services, improving system reliability and reducing debugging time for production issues by **30%**.
- Built internal operational tooling to query MongoDB event data, significantly reducing time spent on debugging and root cause analysis by **40–50%**.
- Owned production support responsibilities including incident response, RCA, and log-driven troubleshooting, helping reduce repeated incident occurrence by **20–25%**.
- Strengthened engineering quality by adding Jest-based unit tests, improving regression detection by **30%**.
- Implemented CI pipelines with GitHub Actions, cutting deployment errors and setup effort by **25%**.

## Projects

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### Code Documentation Generator - React, TypeScript, Babel AST, Gemini API

- Built a developer tool that parses JavaScript/TypeScript code using Babel AST to automatically generate structured documentation.
- Integrated Gemini API to produce concise, human-readable summaries of code blocks, rendered using Markdown with syntax highlighting for improved readability.
- Github Link: [https://github.com/prth8564/code\\_documentation\\_generator](https://github.com/prth8564/code_documentation_generator)

## Education

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RNS Institute of Technology B.Tech – Electronics and Communication Engineering | May 2023

## Links

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**Github:** <https://github.com/prth8564> **Leetcode:** [https://leetcode.com/u/Preetham\\_2065/](https://leetcode.com/u/Preetham_2065/)