

# Akshay Gupta

## Senior Staff Engineer | Cloud-Native Full-Stack Engineer

Seasoned Full-Stack Engineer with 7+ years of experience building scalable, high-performance applications in cloud-native environments. Proven expertise in system optimization, backend engineering, cloud services (GCP, AWS), PostgreSQL, and scalable messaging systems. Skilled in leading cross-functional teams, optimizing performance, reducing technical debt, and delivering AI-powered, user-centric solutions. Passionate about mentoring, DevOps practices, and shipping production-grade software.

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## SKILLS

<b>Languages</b>	JavaScript, TypeScript	<b>Databases</b>	PostgreSQL, Elasticsearch, Redis, Firestore, BigQuery
<b>Frameworks</b>	Express.js, Sails.js, Next.js, Gatsby.js	<b>Frontend</b>	HTML, CSS, React, Redux, Sass
<b>Messaging</b>	RabbitMQ, Google Pub/Sub, AWS SQS	<b>DevOps</b>	Docker, ArgoCD
<b>Google Cloud</b>	Cloud Storage, CDN, CloudSQL, Functions, Tasks, Scheduler	<b>AWS</b>	S3, CloudFront, RDS, Lambda, CloudWatch
<b>Monitoring &amp; Logging</b>	Kibana, NewRelic, Sentry, Google Cloud Logging	<b>Integrations</b>	Sendgrid, Postmark, Resend, Twilio, Plivo, Stripe
<b>Testing</b>	Jest, Mocha, React Testing Library		

## WORK EXPERIENCE

### Staff Engineer - Senior Staff Engineer

PeopleGrove

01/2024 - Present

Remote, India

Tasks/Responsibilities

- **Developing an AI-powered Support ChatBot**, automating resolution for **recurring client issues** to reduce human dependency and improve response efficiency.
- **Redesigned and standardized logging mechanisms**, eliminating unnecessary log levels and resulting in a **40% reduction in Google Cloud Logging costs**.
- **Led the technical integration and data migration** of *Student Opportunity Center*, ensuring **seamless service continuity and a zero-downtime transition** from Firestore to PostgreSQL.
- **Directed a technical debt reduction initiative**, increasing **code maintainability by 30%** and **decreasing reported issues by 25%** across core services.

### Engineering Manager

PeopleGrove

04/2022 - 12/2023

Remote, India

Tasks/Responsibilities

- **Mentored a team of 3 junior developers**, leading to a 40% boost in team productivity and a 15% reduction in development cycle time.
- **Designed and launched an NLP-powered messaging system**, improving **user engagement by 20%** and enhancing **customer satisfaction by 10%**.
- **Developed a real-time data synchronization system** between BigQuery and Customer.io, which **increased marketing campaign effectiveness by 15%** and enabled more personalized user experiences.
- **Created a migration tool for transitioning 200+ customer sites** to PeopleGrove V2, ensuring **minimal downtime and minimal setup required by university clients**.

## WORK EXPERIENCE

### SDE I - Senior SDE

PeopleGrove

03/2019 - 03/2022

Remote, India

#### Tasks/Responsibilities

- **Optimized PostgreSQL queries**, dramatically reducing API response times from **~5 seconds to under 50 milliseconds**, significantly enhancing system performance.
- **Led the development of a high-volume newsletter service**, using Google Pub/Sub and SendGrid to **reach over 500,000 users monthly with personalized content**.
- **Implemented code-splitting in React**, improving front-end performance and increasing the **Lighthouse score to over 90**, leading to better user satisfaction and retention.
- Automated and streamlined Cron job processes for scheduled tasks, enhancing **system reliability and operational efficiency by 20%**.
- Directed the **migration of legacy code from Angular.js to React**, increasing **user engagement by 10x** and improving **page load times by 25%**.
- **Built a bulk matching tool for mentor-mentee pairings**, significantly increasing platform engagement and **contributing to a 15% revenue growth**.
- **Developed a robust feature flag management system**, enabling **agile feature rollouts** and **reducing rollback instances by 50%**.
- **Integrated Postmark for template-based emails**, streamlining communication and enhancing user engagement.
- Implemented **worker threads for handling CPU-intensive tasks**, optimizing system performance and scalability under high-load conditions.

### Assistant System Engineer

Tata Consultancy Services

11/2017 - 03/2019

Hyderabad, India

Client: ARM Semiconductors, Project: Deal Evaluator & Fusion

#### Tasks/Responsibilities

- Developed React application that **consumed data from SAP OData services**, providing **critical sales insights and aiding in strategic sales decision-making** for client and was **recognized by the client leadership** for outstanding contribution.
- Facilitated **seamless access to business intelligence reports** by integrating Tableau, PowerBI, and SAP BusinessObjects in a single React web application, enhancing data-driven decision-making across the organization.
- **Conducted React.js webinars and workshops** for over 10 sessions, cultivating a culture of continuous learning and skill development within the team.

## EDUCATION

### Bachelor of Engineering in Computer Science

Rajiv Gandhi Proudyogiki Vishwavidyalaya

2013 - 2017

Indore, India