

# HARMEET SINGH

New Delhi, India

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## Summary

Results-driven Software Engineer with 3+ years of experience in designing, developing, and maintaining backend systems for high-impact applications. Expertise in microservice architecture, API development, cloud infrastructure (AWS, Google Cloud), and database optimization. Proven track record of enhancing system performance, security, and scalability, delivering a 25% increase in user retention and a 30% reduction in response times. Seeking to leverage technical expertise and innovative problem-solving skills in backend architecture and software engineering roles.

## Education

### Guru Tegh Bahadur Institute of Technology

Aug. 2017 – July 2021

*Bachelor of Technology in Electronic & Communication*

*New Delhi, India*

- **CGPA:** 7.3/10
- **Relevant Coursework:** Information Theory and Coding, Communication Systems, Database Management System, Digital System Design

## Experience

### NexGen IOT Solutions

July 2021 – August 2024

*Software Engineer*

*Gurugram, Haryana*

- Led the development and optimization of Ecommerce and OTT platforms, improving performance by 20% and reducing latency by 30% through microservice architecture and caching strategies.
- Designed RESTful APIs and microservices for dynamic web applications, reducing API response time by 30% and scaling services to handle a 40% increase in traffic.
- Developed serverless applications with AWS Lambda, cutting infrastructure costs by 20% and boosting event processing speed by 40%.
- Improved data retrieval performance by 25% by integrating Elasticsearch and optimizing query execution in relational databases (Postgres, DynamoDB).
- Enhanced system security by implementing IAM role-based access, reducing unauthorized access incidents by 25%.
- Utilized Go's concurrency model and gRPC for building scalable and low-latency microservices, improving system throughput by 35%.

## Projects

### Nispanid: Meditation and Sleep | *Software Engineer*

- Developed a mobile application for iOS and Android, serving 50k+ active users. Reduced app load time by 25% through optimized microservices and caching strategies.
- Implemented encryption protocols for data at rest and in transit, improving application security by 40%.
- Architected a backend solution using Node.js, Express.js, and MongoDB, secured with JWT and OAuth2, to support real-time user interactions and scalable data storage.

### Tender Scraper | *Software Engineer*

- Developed an automated scraper using Python and BeautifulSoup, increasing data collection efficiency by 30% across multiple tender websites.
- Enhanced scraping tool's performance with multi-threading and data aggregation techniques, reducing manual data entry by 90%.
- Implemented a filter and categorization algorithm, improving data search efficiency by 20%.

## Technical Skills

**Languages:** JavaScript, Node.js, TypeScript, Go, Python, SQL, REST, GraphQL, gRPC

**Frameworks:** React.js, Express.js

**Cloud Platforms:** AWS, Google Cloud

**Databases:** MongoDB, DynamoDB, Redis, PostgreSQL, Elasticsearch

**DevOps:** Docker, Kubernetes, GitLab CI/CD

**Project Management:** Jira, Agile Methodology

**Other:** Data Structures, Algorithms, Microservices Architecture, API Design

**Soft Skills:** Teamwork, Problem-solving, Leadership