

# SASANK PANKAM

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## EDUCATION

### Indian Institute of Information Technology Kottayam

Bachelor of Technology in Computer Science & Engineering | CGPA: 9.4

Nov 2022 – May 2026

Kottayam, India

## EXPERIENCE

### Even.in

Jan 2026 – Present

Software Engineer (Backend), formerly SWE Intern (Go, GCP, Bazel, Gerrit)

Bengaluru

- Optimized Bazel build infrastructure by eliminating inefficient targets and refactoring legacy code while preserving backward compatibility, reducing peak memory usage from 20GB to 3.4GB and build times from 45s to 13s.
- Improved CI/CD performance by restructuring container images into cached static and volatile layers, reducing image build times from 2 minutes to under 50 seconds and accelerating deployment workflows across services.
- Migrated production cloud infrastructure into Terraform with a review-gated pipeline for automated plan, apply, and drift detection.
- Built an AI code review system integrated into Gerrit as a review button, presubmit check, and scheduled job, on a modular pipeline framework with interchangeable source, processing, and destination adapters reusable across review systems and AI providers.
- Designed and built a configurable email ingestion platform supporting dynamic routing, feature toggles, match traceability, automated backfills, and extensible processing pipelines for incoming customer communications.
- Enhanced platform reliability by isolating payout-critical traffic onto a dedicated high-priority API tier, preventing cascading execution chains across asynchronous contexts, and migrating customer-facing analytics from BigQuery-dependent workflows to Metabase-backed integrations, improving stability while reducing infrastructure costs.

### Hashed Tokens

May 2025 – Jan 2026

Software Developer Intern (Go, Python, PostgreSQL, Redis, RabbitMQ, Git)

Remote Part-time

- Designed and built the complete backend recruitment platform in Go with JWT auth, Redis caching, async event processing via RabbitMQ, and high-load search capabilities.
- Developed an internal RabbitMQ wrapper library with thread-safe producer-consumer abstractions, automatic retries, and redelivery logic to streamline message handling.
- Architected a git repository management interface enabling file-level access restrictions and optimized code documentation service with improved data models and caching strategies.
- Built PRAB, a Go backend enabling partial repository access sharing a filtered subset of a repo's commits and files with scoped users, with view, fork, and graft over git

## PROJECTS

### Myers Diff Engine [github](#)

Ongoing

High-Performance Diff Algorithm Library (C++, CMake)

- Implementing a generic Myers diff algorithm in C++ with template metaprogramming to support arbitrary data types with minimal overhead.
- Designing a fork-join concurrency model for multi-threaded diff computation with fine-grained synchronization and lock-free data structures.

### Peerconnect [github](#)

Dec 2023 – Mar 2025

Peer-to-Peer File Sharing & Messaging App (Python, React, Sockets, WebSockets, Kademlia)

- Co-designed a gossip-based protocol for decentralized file transfer of large files (5+ GB) across multiple peers simultaneously without a central server.
- Built the frontend UI from scratch using React and WebSockets for real-time peer communication and file transfer visualization.
- Implemented DHT-based peer discovery mechanism with 98% network coverage while maintaining minimal peer connections per node.

### ARC (Alert Correlation Engine) [github](#)

Feb 2025 – Jul 2025

Infrastructure Alert Correlation Platform (Python, aiohttp, asyncio, WebSockets)

- Built an alert correlation system from scratch to identify and group related infrastructure alerts occurring in bursts, addressing a complex observability problem using graph traversal and historical pattern matching techniques.
- Designed a modular adapter-based architecture integrated with OpsRamp, achieving >90% correlation accuracy on datasets generated from 500 days of synthetic alert history and delivering a production-ready solution.

## TECHNICAL SKILLS

**Languages:** Go, Python, C, C++, JavaScript, Java, SQL

**Frameworks:** gRPC, protobuf, asyncio, React.js

**Tools & Technologies:** Git, Linux, Docker, PostgreSQL, Redis, RabbitMQ, Kubernetes, Gerrit, Bazel, Terraform