

# Harshith Latchupatula

647-804-5812 | [harshith1777@gmail.com](mailto:harshith1777@gmail.com) | [linkedin.com/in/harshithlatchupatula](https://www.linkedin.com/in/harshithlatchupatula) | [github.com/harshith1777](https://github.com/harshith1777)

## EDUCATION

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### University of Toronto

Bachelor of Science in Computer Science

Toronto, ON

Sep 2023 - May 2028

**Courses:** Data Structures & Algorithms, Operating Systems, Object-oriented Programming, Distributed Systems, Parallel Programming, Computer Networks, Database Systems, Computer Architecture, Compilers, Cloud Computing

## EXPERIENCE

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### Stripe

Software Engineer Intern

May 2026 – Aug 2026

Toronto, ON

- Developing low-latency read/write monetization pipelines on the Connect Core Engineering Team

### HubSpot

Software Engineer Intern

Sep 2025 – Dec 2025

Toronto, ON

- Developed a low-latency, distributed events pipeline using Java & Apache Kafka topics to ingest, aggregate, and stream 50k+ events/sec into client endpoints and downstream services, reducing incident response times by 25%
- Increased pipeline throughput by 40% by implementing a per-customer event aggregation layer in Java that batched events to 1 message/sec, smoothing burst traffic and reducing customer-facing service fan-out by 30%
- Boosted pipeline reliability by surfacing per-node Kafka failure rates, cutting incident troubleshooting time by 15%

### Amazon

Software Engineer Intern

May 2025 – Aug 2025

Toronto, ON

- Created a reactive vertical autoscaling system for AWS Fargate containers using EMA-based usage forecasting to dynamically compute container CPU & RAM limits, saving \$10k in costs and 30 developer hours per month
- Supported 50k+ executions per second by building a usage monitoring pipeline using Go, SQS, and DynamoDB
- Increased limit confidence scores by 40% by developing a Go-based evaluation framework on EC2 to back-test highly variable scaled-down resource limits against 2.5k+ historical workload scenarios

### theScore

Software Developer Intern

May 2024 – Aug 2024

Toronto, ON

- Engineered a low-latency, stateless JWT-based passwordless authentication system in Elixir & Phoenix, eliminating database accesses from the token verification path and reducing p95 authentication flow latency from 150ms to 5ms
- Architected an internal gRPC-based token validation service in Elixir, enabling constant-time authentication without centralized storage and sustaining 5k+ requests/sec while backtesting historical burst traffic
- Eliminated token replays by building a Redis-backed prevention layer, mitigating replays using atomic operations

### IBM

Software Developer Intern

Jul 2022 – Sep 2022

Markham, ON

- Integrated OpenAI's DALL-E model into a course application to auto-generate course thumbnails using Python, RabbitMQ & Kubernetes, eliminating 100% of manual author course thumbnail design effort
- Eliminated UI blockage by 100% via an asynchronous background job system using Ruby on Rails & Sidekiq
- Enhanced feature reliability by building a service observability pipeline that logs metrics & failures to Datadog

## PROJECTS

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**Relay** | React, Java, Spring Boot, Docker, Firebase

[github.com/harshith1777/relay](https://github.com/harshith1777/relay)

- Engineered a web app to provide real-time attendance sessions for tutorials, reducing attendance times by 90%
- Minimized student attendance recording time to ~30s via QR code login and storage in Firebase Storage Buckets

**Beacon** | Python, Flask, React, Redux, MongoDB

[github.com/harshith1777/beacon](https://github.com/harshith1777/beacon)

- Developed a web app to provide crowdsourced pandemic grocery stock levels, reducing grocery travel time by 60%
- Minimized search time to ~50ms on average by implementing MongoDB geolocation search with 2D sphere indices

## TECHNICAL SKILLS

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**Languages:** Python, HTML / CSS, JavaScript / TypeScript, SQL, Java, C++, C#, Go, Bash

**Frameworks:** React, AngularJS, Vue, Express, Django, Flask, Ruby on Rails, Spring Boot, Phoenix, GraphQL

**Databases & Services:** PostgreSQL, MySQL, MongoDB, Firebase, DynamoDB, SQS, Redis

**Developer Tools:** Git, Github, Docker, Kubernetes, AWS, GCP, Azure, Linux, Datadog, Jenkins