

# Anant Goyal

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## EDUCATION

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### University of Illinois Urbana-Champaign

Expected: December 2026

Master of Engineering in Computer Engineering

Champaign, IL

- Relevant Courses: Distributed Systems, Real-World Algorithms, Communication Networks

### The University of British Columbia

2018 - 2023

Bachelor of Applied Science in Computer Engineering

Vancouver, BC

## SKILLS

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**Programming:** Java, Python, C/C++, C#, TypeScript, JavaScript, SQL, Bash

**Technologies:** React, Angular, Spring, Hadoop, Spark, Next.js, Node.js, Postgres, Playwright, Vitest, Selenium

**Tools:** Git, GitHub Actions, Jenkins, Synk, Autosys, Jira, AWS (ECS), Claude Code, Cursor, Gemini API

## EXPERIENCE

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### Software Engineer

July 2023 - August 2025

Citi | Toronto, ON

- Reduced trade creation time by 90% for high-volume institutional users by shipping a bulk trade feature for a money market fund trading application in Java and Angular
- Engineered financial controls such as duplicate trade detection, blind re-key for trades over \$5M, maximum trade amount of \$10B, and multiple approval flow for trades over \$10M to ensure compliance and risk reduction
- Achieved 25% reduction in QA cycle time by spearheading unit test infrastructure, surpassing 80% code coverage
- Automated 400+ regression tests and distributed using Selenium Grid reducing execution time by 62%, deployed tests as a microservice on Amazon ECS
- Mentored incoming engineers and 2 interns through onboarding by scoping starter tickets, conducting code reviews, and guiding architectural and feature decisions alongside operations users

### Software Engineer Intern

May 2022 - Aug 2022

Picotera Electronics | Richmond, BC

- Increased device uptime by 10% and improved emergency alerts functionality (pedestrian-vehicle safety, duplex communication) by developing firmware in C for a smart communication device
- Delivered custom Android app features such as app-whitelisting and kiosk mode using the Android Management API to manage device policies for over 50 devices used by customers

### Software Test Engineering Intern

January 2021 - August 2021

NETGEAR | Richmond, BC

- Executed 10+ manual and automated tests weekly on various 3G/LTE routers across multiple product lines
- Led automation development for a newly released mobile hotspot by writing first 3 Python-based test scripts

### Test Automation Development Intern

May 2020 - December 2020

IBM | Ottawa, ON

- Improved i18n validation coverage by 100% across localized environments by developing a CSV parser tool to enable test execution across 20+ supported languages
- Earned Design Thinking Practitioner and Automation Essentials badges while contributing to full Agile ceremonies

## PROJECTS

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**InterPrep** | Next.js, TypeScript, Postgres, Gemini API, Google MediaPipe, Playwright

[Github](#)

- Architected a full-stack AI interview coaching platform in Next.js for behavioral and technical modes with per-user data persistence via Supabase PostgreSQL, and OAuth
- Engineered a Gemini API pipeline generating 8-10 tailored questions across 5 behavioral competency categories, using structured output constraints and prompt engineering to reduce hallucinations and enforce response format

**Distributed File System & Stream Processor** | Java, Hadoop, Apache Spark

[Github](#)

- Designed and built a fault-tolerant distributed file system and stream processing engine, achieving 10,000 tuples/sec throughput and 70ms file re-replication latency under failures across 10 nodes
- Implemented leader-based coordination with consistent hashing and quorum-based reads/writes to ensure strong consistency and automatic rebalancing under varying workloads improving performance