

# Chaman Kumar

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## EDUCATION

### Northeastern University, United States

Sep 2024 - Dec 2026

Master of Science in Computer Science [GPA: 3.67/4]

Courses: Design Patterns, Web Development, Algorithms, DBMS, Computer Systems, HCI, Cloud Computing, ML

Leadership: Aspiring Product Managers Club - Leader of Technical Development and Product Management

## EXPERIENCE

### Graduate Teaching Assistant | Northeastern University, Massachusetts

Jan 2025 – Present

- Lead TA managing TA team and codebase and shipped a Stack Overflow-style MERN Q&A platform used by 500+ students
- Mentored 5 teams across semesters with TDD and peer reviews and improved deployment 25% and reduced incidents 40%
- Ran labs and office hours for 100+ students and taught MERN and Agile and achieved a 95% project completion rate
- Built CI/CD for continuous checks and raised coverage by 20% and reduced deployment errors by 20% and bug cycles 10%

### Software Engineer | AKQA, Gurgaon, India

Jul 2022 – Aug 2024

- Optimized IWC website by tackling slow loads and long paths via Core Web Vitals, UX, and storage using AEM + MERN
- Stabilized releases via Jenkins CI/CD and sustained 11s to 4s page loads and lifted engagement 18% and interactions 23%
- Led accessibility and analytics; delivered 85%+ WCAG 2.1 A/AA and SKU attribution, guiding experiments and roadmap
- Led digital activations for WaW (2022–2024), improving reach and engagement by 55% and achieving 500M+ online reach
- Built JUnit/Jest tests and Cypress e2e to enable refactoring and lifted coverage 20% and cut errors 20% and bug cycles 10%

### Software Engineer Intern | Bluepi, Gurgaon, India

Nov 2021 – Feb 2022

- Implemented a Reddit-style Java/Spring CRUD app for fix posts and quick search to speed onboarding and issue resolution
- Prototyped Spring Boot/Java CRUD flows to validate client ideas and shorten cycles and increase buy-in
- Added JUnit with CI/CD test gates to automate testing, lifting reliability 15% while cutting defects 20% and cycle time 10%
- Co-lead AWS redesign: right-sized EC2, tuned RDS, autoscaling, monitored CloudWatch - raised resilience, cut costs 10%

## PROJECTS

### Google Slides Generator | React.js, Express, Vite, NodeJS, PostgreSQL (Neon), MongoDB

[[GitHub](#)]

- Created a full-stack slide generator to programmatically compose decks with reusable layouts, themes, and end-to-end flows
- Integrated Google Slides API with OAuth for publishing, DB-backed templates, uploads, and session workflows
- Designed a theme-first system and automated layout registry, enabling rapid slide generation and streamlined authoring

### Advance Image Processor / Java, GUI, Software Design Pattern, Object Oriented Design, TDD

[[GitHub](#)]

- Architected an extensible image processing application using the MVC architecture for modularity and scalability
- Implemented 7+ core transformations including blurring, sharpening, RGB splitting, sepia, and histogram generation
- Applied Strategy, Factory and Command patterns to build a scalable codebase, cutting new feature integration time by 30%

### LeetCode Power Up – Chrome Extension | JavaScript, Chrome Extensions API, YouTube Data API

[[GitHub](#)]

- Shipped a Chrome extension that injects 3-5 LeetCode solution videos via YouTube API to boost problem-solving efficiency
- Integrated a per-problem scratchpad for notes, with data persistence using chrome.storage for seamless cross-session access
- Engineered a Promise-based async architecture for non-blocking communication between content and background scripts

## SKILLS

**Programming:** Java, Python, C/C++, JavaScript, TypeScript, C#, SQL, Go(Golang), Ruby

**Web/Frameworks:** React, Node.js, Next.js, Express, Spring Boot, .NET, Angular, HTML5/CSS3, Webpack, Socket.IO

**Databases/Testing:** MySQL, PostgreSQL, DynamoDB, MongoDB, Redis, JUnit, Mockito, Jest, Postman, SonarQube

**Cloud & DevOps:** Jenkins, Docker, Kubernetes, GCP, Azure, AWS (Lambda, EC2, S3, RDS/DynamoDB, IAM, SNS)

**Software Dev.:** Object-Oriented Design, TDD, Agile, Scrum, Retrospective, Story Planning, Sprint, Service First

**Certifications:** AWS Cloud Practitioner, AWS Certified Developer Associate

**Other Tools:** Selenium, jQuery, CloudWatch, Cypress, Git, Linux/Bash, CI/CD, GitHub Actions, REST API, JWT

## PUBLICATIONS

[1] ‘Evaluation of Tracking System using Facial Recognition and Location’ / **IEEE Xplore** [[Paper](#)]

Dec 2023

[2] ‘Understanding Factors Affecting Trust and Satisfaction with Banking in India’ / **IEEE Xplore** [[Paper](#)]

Dec 2023