

# Manas Aggrawal

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| <https://github.com/manas-aggrawal>

## EDUCATION

### Northeastern University

M.S. in Computer Science

Boston, MA

2024-2026

- o **Related Coursework:** Programming Design Patterns, Web Development

### Guru Gobind Singh Indraprastha University

B.Tech. in Computer Science Engineering

Delhi, India

2016-2020

## SKILLS

**Languages:** Typescript, JavaScript, Java, C++, Python, PHP, HTML, CSS

**Technologies:** Node.js, NestJs, Serverless Stack, express.js, Laravel, Bootstrap, React, Django Rest Framework

**Database:** PostgreSQL, Elasticsearch, Amazon DynamoDB, MySQL, Firestore DB

**Tools:** Sentry, Git, Docker, Amazon SQS, AWS SNS, AWS OpenTelemetry, AWS X Ray, AWS Lambda, AWS S3, Jira, Confluence

**Others:** Test-Driven Development (TDD), trunk based development, Problem Solving, Linux, Microservices, Agile Scrum

## EXPERIENCE

### Studio Graphene

Software Engineer

Gurugram, India

November 2020 – July 2024

- Collaborated within globally dispersed teams with members from different regions like Portugal, London and India
- Conducted Proof of Concepts, project setups, and database design, overseeing the end-to-end development life cycle
- Introduced TDD and trunk-based-development approach in the organization.
- Conducted thorough code reviews, and managed seamless code deployments
- Facilitated scrum meetings and played a key role in release management processes
- Mentored and trained junior engineers
- Made significant contributions to internal products, namely Pulse and Nodejs-telemetry, enhancing Project Performance Monitoring by 90% and Application Performance Monitoring by 80% company-wide

## PROJECTS

### [Image Processing](#) | Personal | Java

- Building a command line based Image processing program in Java
- Program has features like image blur, sharpen, horizontal and vertical flip, RGB split, value component, luma component, intensity component, histogram, color correction and levels adjustment etc

### Kanbas React App | Personal | HTML, CSS, Bootstrap, JS, React

- Building a canvas (Online Learning Management) clone website

### [Pulse](#) | Studio Graphene | Node.js, NestJs, Serverless Stack, PostgreSQL, Elasticsearch, DynamoDB, AWS Lambda, AWS SQS

- Engineered an internal tool to quantify project performance by assessing individual contributors
- Integrated GitHub and Jira, enabling the measurement of key efficiency metrics such as code commit frequency, FTP rate, bug-reopen rate, version upgrades, SAST scans errors, and estimates vs actuals

### Nodejs-Telemetry | Studio Graphene | Node.js, TypeScript, AWS OpenTelemetry, AWS X Ray

- Developed a specialized npm package for Application Performance Monitoring
- Integrated AWS XRay with Open Telemetry for code instrumentation, trace generation and exportation through OTLP exporter
- Implemented a custom logger singleton, leveraging the Winston library and incorporating aws-xray-trace-Id
- Significantly enhanced performance monitoring, resulting in an impressive 80% reduction in debugging time

### K9 | Studio Graphene | Laravel, MySQL, Firestore DB

- Engineered a social platform tailored for Dog Lovers and Owners
- Incorporated live walk tracking modules for monitoring dog walks
- Integrated Twitter APIs to dynamically fetch dog-related content using client-specified hashtags
- Developed an Admin Panel using HTML, CSS in Laravel Blade