

Ekam Singh Chahal

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EDUCATION

Northeastern University

Master of Science in Computer Science, GPA: 3.96/4.00

Relevant Coursework: Distributed Systems, Web Development, Database Systems, Machine Learning

Boston, MA

Sep 2022 - May 2024

Jaypee Institute of Information Technology

Bachelor of Technology in Computer Science, GPA: 9.40/10.00

Relevant Coursework: Data Structures & Algorithms, Operating Systems & Compilers, Computer Networks

Noida, IND

Jun 2016 - Jun 2020

PROFESSIONAL EXPERIENCE

Northeastern University

Algorithms & Java Software Assistant

- Directed students on **algorithm design** and **object-oriented programming**, resulting in a 20% rise in course grades.
- Enacted a constructive feedback system, resulting in a 30% increase in positive course evaluations; mentored over 100 students in programming languages such as **Java & C++**.

Boston, MA

May 2023 – May 2024

Amazon

Software Development Engineer

- Drafted and wrote comprehensive **technical documentation** for the Chewbacca migration project, focusing on the SPC page's **payment product** feature in the UK market, serving a customer base exceeding 4 million.
- Integrated SPC system with CBCC cards for Amazon's UK payments market using **Java** on **AWS** and **agile** practices, collaborating with financial institutions like Barclays, resulting in revenue generation exceeding \$40 million.
- Formulated approach and resolved two consumer **Java** bugs in the NxEPG Germany market, affecting over 1 million users.
- Resolved 2 Sev-2 tickets in on-call rotation, actively engaged in system design, **testing**, **architecture planning**, and **code reviews** to ensure a 10% increase in system stability and reliability.

Bangalore, IND

Dec 2021 – Jun 2022

Oriserve

Software Engineer

- Restructured and optimised code for 60+ data reports using **Node Cron** jobs, demonstrating solid problem-solving skills.
- Developed scalable products using **Javascript** for automatic report generation, eliminating manual report creation by 100%.
- Deployed feature for report monitoring & logging using **Express**, slashing error debugging by 90%.
- Enhanced running time of more extensive duration reports by almost 98% by innovating an efficient and scalable method for saving and retrieving cumulative reports data (up to 1 year) in a compressed form onto **MongoDB** databases.
- Programmed code for 10+ **Web APIs** using **Node.js** and **MongoDB** syncing solutions for seamless report data integration.
- Leveraged **Redis** as a session data store for agents, resulting in a 90% reduction in real-time customer assignment latency, significantly improving system performance and operational efficiency.
- Collaborated in conducting 30+ **Javascript & data structures** focused technical interviews and played a crucial role in hiring 10+ software engineers, contributing to forming a skilled and qualified team.

Noida, IND

Jul 2020 – Dec 2021

TECHNICAL SKILLS

Programming Languages: Java, C++, Javascript, Python, Typescript

Web Technologies: Java Spring Boot, CSS, HTML, Node.js, React.js, Docker, Express, REST APIs

Databases: Hibernate, Relational Databases, MySQL, MongoDB, Postgres, NoSQL

Tools: Version Control System, Git, CI/CD, Scrum, Linux, Jira, IntelliJ, VSCode

PROJECTS

Pinterest Clone Full-stack Web Application

Feb 2024 – May 2024

- Developed a **web application** supporting over 100+ users, featuring user login/signup using **OAuth**, pin exploration, and uploading.
- Followed **MVC architecture** for application's backend systems using **Node.js**, **React.js** for responsive front-end and **relational databases**, increasing code reusability by 90%. [\[GitHub\]](#)

Virtual Stock Java Application

Oct 2023 – Dec 2023

- Programmed a **Java**-based user interface and GUI application using **Java Swing** and the **MVC design pattern**, proficiently managing data for the top 470 company stocks of the S&P 500 share index and extensive **JUnit testing**.
- Devised logic and executed various application features in a **test-driven development**, including stock addition/sale functionalities on specified dates and performance analysis for data spanning up to 10 years. [\[GitHub\]](#)

Blog Springboot Web Application

Aug 2023 – Aug 2023

- Developed a **Java Spring Boot** based web service facilitating 1000+ user profile creation, blog creation and management, reading of other users' blogs, and interaction functionalities like liking and commenting.
- Defined **SQL** tables/queries for storing 100+ user profiles, blogs, likes, and comments **databases**. [\[GitHub\]](#)