# Aryan Jain

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## EDUCATION

- **Khoury College of Computer Sciences, Northeastern University** — Boston, MA
  *Masters of Science in Computer Science; CGPA: **4.00*** — *Jan 2023 – May 2025*
- **Savitribai Phule Pune University** — Pune, India
  *Bachelor of Engineering; GPA: **8.56** / **10.00*** — *Jul 2017 – Aug 2021*

## TECHNICAL SKILLS

- **Languages and Frameworks:** C, C++, Java, Python, Javascript, Typescript, ReactJs, AngularJs, NodeJs, Flask, HTML/CSS
- **Databases:** MongoDB, MySQL, PostgreSQL, SQL Server, Oracle, AWS, Google Cloud Platform
- **CS Concepts:** Data Structures, Algorithms, OOP, Cloud Computing, Distributed Systems, Multi-threaded programming
- **Testing and Tools:** Azure, Jenkins, Selenium, Jira, Wireframes, Prototypes, Git, Docker, Jest, Mocha, Linux

## EXPERIENCE

- **Teaching Assistant | Full-Stack** — Boston, MA
  *Northeastern University* — *Jan 2023 - Present*
  **Teaching Assistant - Fundamentals of Software Engineering (CS-4530)**
  - Guided over 400 students in full stack development, utilizing technologies such as Typescript, NextJS, ReactJS, and NodeJS. Conducted 15+ weekly office hours, mentoring and assisting to students with their projects.
  - Managed group projects by assigning tickets, leading scrum calls, implementing CI/CD pipelines, and utilizing 3rd party libraries such as Firebase, Twilio, and Swagger. Successfully deployed 7+ new features on Heroku.
  - Provided guidance to students on various CS concepts such as Software Development Life Cycle (SDLC), software scalability, software reliability and security, testing, user flows, role-based flows, wireframes, and more.

- **Software Developer | Full-Stack** — Pune, India
  *Josh Software Pvt. Ltd.* — *Jan 2021 - Nov 2022*
  **Lemnisk**
  - Redesigned the application architecture by incorporating technologies such as server-side rendering (Next.js), TypeScript, React-Query, resulting in a remarkable 90% increase in performance.
  - Developed advanced chart types, including Radar, Sunbursts, and Funnels. These visually appealing and informative additions to the project resulted in a significant 50% increase in client engagement.
  - Revamped and optimized Node.js CRUD endpoints for a CRM platform, reducing response time by 50%. This improvement enhanced the platform's performance and responsiveness, positively impacting user experience.
  **BidWheelz**
  - Developed dashboard UI in React, leveraging libraries like AntD for designing and Redux-Thunk for state management. Achieved a remarkable 70% traffic increase through seamless frontend-backend integration.
  - Developed REST APIs for slot booking using websockets, ExpressJS, and MySQL. Integrated payment gateway using 3rd party library. Conducted Jest unit testing to ensure reliability and quality of implementation.
  **MyLab (Healthcare client)**
  - Utilized web sockets for real-time data visualization using charts. Utilized Redux (Sagas) for state management.
  - Developed utility logic supporting extensive usage of session storage to enable role-based feature rendering.

- **Backend Developer Intern** — Pune, India
  *Wolffkraft Design Studio* — *Jan 2020 - May 2020*
  - Implemented ACID compliance, normalization techniques, SQL joins to optimize complex queries involving multiple tables. Achieved over 30% efficiency improvement. Successfully deployed project on AWS EC2 instance.

## PROJECTS

- **Metamorphix (NextJS, Typescript, Node, Mongo)** — *May 2023 - Jul 2023*
  - Developed a day-planner and progress tracker software to track and visually represent progress.
  - Implemented advanced charts, such as HeatMap and Radar. Also utilized React-Query for state management.
- **Workflow Management Software (React.js, Node.js, Javacript, MySQL)** — *Sep 2022 - Dec 2022*
  - Developed full-stack software including features like - task assignment, payroll, HR, client requests and more.
  - Integrated third-party tools such as Amazon's SNS and Firebase for client communication and authorization.
- **Super Resolution (GANs, ML, Tensorflow, Python)** — *Jun 2021 - Aug 2021*
  - Studied generative modeling and developed a model that converts the low resolution of an image to super-resolution.
  - Experimented with various neural network architectures like- EDSR, MDSR, ESRGAN.

## VOLUNTEERING AND CERTIFICATES

- **Certificate(s):** Deep Learning Specialization | Tensorflow Specialization — *Coursera, 2020*
- **Certificate(s):** Advanced C/C++ Programming | Java Programming (Core/Adv) — *Seed Infotech, 2018 / 2019*