

# Aryan Jain

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## EDUCATION

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- **Khoury College of Computer Sciences, Northeastern University** Boston, MA  
*Master of Science in Computer Science; CGPA: 4.00 / 4.00* *Jan 2023 – Dec 2024*
- **Savitribai Phule Pune University** Pune, India  
*Bachelor of Engineering in Computer Science; GPA: 8.56 / 10.00* *Jul 2017 – Aug 2021*

## SKILLS

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- **Languages and Frameworks:** C, C++, Java, Python, JavaScript, TypeScript, React.js, Angular.js, Node.js, Flask, HTML, CSS
- **Databases and Cloud:** MongoDB, MySQL, PostgreSQL, SQL Server, Oracle, AWS, Firebase, Google Cloud Platform
- **Testing and Tools:** Azure, Jenkins, Selenium, Jira, Wireframes, Prototypes, Git, Docker, Jest, Mocha, Linux

## EXPERIENCE

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- **Head Teaching Assistant | Software Engineering** Boston, MA  
*Northeastern University* *Jan 2023 - Present*
  - Guided over 400 students in full stack development, utilizing technologies like TypeScript, React.js, and Node.js.
  - 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 / Netlify.
  - Mentored students on various CS concepts such as Software Development Life Cycle (SDLC), Design Patterns, Software Scalability, Software Security, Unit Testing, User Flows, Role-based flows, and more.
- **Software Engineer | 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, Sumbursts, 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 websockets 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.
- **Software Engineer Intern | Backend** 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

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- **RealTime Dumb Charade Challenge (WebRTC, Socket.io, React.js, Node.js)** *July 2023 - Aug 2023*
  - Developed SFU network system (Peer-to-Peer) to stream WebCam feed among multiple users using WebRTC.
  - Utilized Socket.IO to establish WebSockets connections, enabling users to chat within designated rooms.
- **Metamorphix (React.js, Next.js, TypeScript, Node.js, MongoDB, Firebase)** *May 2023 - July 2023*
  - Developed a productivity software encompassing features like day-planner, file-storage, email-notifications, and more.
  - Incorporated advanced charts like HeatMap and Radar, to visualize user-progress. Also integrated Firebase storage.
- **Super Resolution (GANs, ML, Tensorflow, Python)** *June 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

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- **Certificate(s):** Deep Learning Specialization | Tensorflow Specialization *Coursera, 2021*
- **Certificate(s):** Advanced C/C++ Programming | Java Programming (Core/Adv) *Seed Infotech, 2018 / 2019*