

SAATVIK NAGPAL

Los Angeles, CA | 213-995-7380 | saatvikn@usc.edu | [linkedin.com/in/saatviknagpal/](https://www.linkedin.com/in/saatviknagpal/) | github.com/saatviknagpal | saatviknagpal.me

EDUCATION

University of Southern California, Los Angeles, CA

GPA: 4.0

Master of Science in Computer Science

Jan 2024 - May 2025

Relevant Courses - Foundations of AI, Web Technologies

Northeastern University, Boston, MA

GPA: 4.0

Master of Science in Computer Software Engineering [Transferred]

Sep 2023 - Dec 2023

Relevant Courses - Program Structures and Algorithms, Object Oriented Design using Java

Guru Gobind Singh Indraprastha University, New Delhi, India

GPA: 9.29

Bachelor of Technology in Computer Science

Aug 2019 - July 2023

Relevant Courses - Data Structures, DBMS, Object Oriented Programming, Operating Systems, Computer Networks

TECHNICAL SKILLS

Languages: Java, Python, C++

Databases: MongoDB, SQL, PostgreSQL, DBMS/RDBMS, Distributed Storage

Web Technologies: HTML, CSS /Tailwind CSS, JavaScript, React.js, Next.js, TypeScript, Express.js, Node.js, GraphQL, PHP

Cloud Technologies: GCP, AWS

Frameworks: Flask, Spring, Swing, Android

Tools and Technologies: Microservices, Linux, Jira, Jenkins, Git, Postman, Docker, Agile, Figma

WORK EXPERIENCE

Software Developer Intern | Desi QnA, Remote

Apr 2023 - Aug 2023

- Designed and developed a responsive Desi QnA section with **HTML**, **CSS**, **JavaScript**, and **Bootstrap**, increasing user engagement by **40%**
- Enhanced user authentication in **PHP**, reducing bot activities and spam by 60% with custom algorithms
- Strengthened site security by 70% by integrating **Google reCAPTCHA** using **PHP** and **JavaScript**, balancing protection and user experience

Frontend Developer Intern | TGH Technologies, Remote

May 2022 - Aug 2022

- Elevated user engagement by 30% for **The Social Town (TST)** through implementation of a dynamic user interface leveraging **React.js** and **Redux Toolkit** for seamless state management across multiple pages
- Initiated creation of an advanced admin dashboard for a movie stock market application, incorporating **Chart.js** visualizations, resulting in a substantial 30% surge in user acquisition through improved data analysis capabilities
- Revamped **Boring Bots'** user interface, leading to a 25% reduction in customer support inquiries and a 20% enhancement in user satisfaction

ACADEMIC PROJECTS

OptiMaze | Java, Spring Boot, React.js, JUnit, Material UI

[GitHub](#)

- Engineered a maze-solving game, integrating dynamic maze generation and optimal pathfinding algorithms with **Java** and **Spring Boot**, validated through comprehensive testing with **JUnit** to ensure reliability and functionality
- Developed the game's frontend with **React.js**, creating a responsive and intuitive user interface for enhanced player interaction
- Authored detailed API documentation with **Swagger**, facilitating seamless backend integration and effective development team collaboration

VidLounge | React.js, Tailwind CSS, Node.js, Express.js, MongoDB

[GitHub](#)

- Launched a full stack video platform, serving **10+** users, driving engagement through interactive features, and enabling user-generated content with a **50MB** file limit
- Devised a mobile-responsive UI, cut load times by 30% using **Cloudinary** for video storage, ensuring an exceptional user experience for a growing user base

Devshowcase | Next.js, MongoDB, Tailwind CSS, Cloudinary

[GitHub](#)

- Led a portfolio crafting web app within a three-person team, incorporating **Google Auth** and **JSON Web Tokens** for robust user authentication, ensuring secure user profile management and seamless photo uploading
- Designed and developed **REST APIs**, resulting in a 30% increase in user-generated projects and heightened engagement through features such as liking and commenting on projects