

SAATVIK NAGPAL

Los Angeles, CA | 213-995-7380 | saatvikn@usc.edu | linkedin.com/in/saatvknagpal/ | github.com/saatvknagpal | saatvknagpal.me

EDUCATION

University of Southern California

Master of Science in Computer Science (GPA: 3.7/4.0)

Relevant Courses: Foundations of AI, Web Technologies

Los Angeles, California

Jan 2024 - May 2025

Northeastern University

Master of Science in Computer Software Engineering [Transferred] (GPA: 4.0/4.0)

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

Boston, Massachusetts

Sep 2023 - Dec 2023

Guru Gobind Singh Indraprastha University

Bachelor of Technology in Computer Science (GPA: 9.28/10)

Relevant Courses: Data Structures, Operating Systems, Software Engineering, Machine Learning, NLP, AI, Data Science, AR/VR

New Delhi, India

Aug 2019 - July 2023

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, Kotlin, TypeScript, Spring Boot, Spring

Databases: MongoDB, SQL, PostgreSQL, DBMS/RDBMS, Firebase, Supabase

Web Technologies: HTML, CSS /Tailwind CSS, React.js, Next.js, Express.js, Node.js, GraphQL, PHP, ShadCN, Clerk, Flask, Spring, Swing

CI/CD & Cloud Technologies: Google Cloud Platform, AWS, Kafka, Docker, Kubernetes

Machine Learning Technologies: TensorFlow, Numpy, Pandas, Matplotlib, Seaborn

Other: Microsoft Office (Outlook, Word, PowerPoint, Excel), Microservices, Linux, Git, Postman

WORK EXPERIENCE

Software Developer Intern | Desi QnA, Remote

Apr 2023 - Aug 2023

- Increased user retention by **60%**, as measured by engagement metrics, by upgrading Desi QnA to a **PWA** and ensuring high-performance code.
- Reduced unauthorized access by **75%** through implementing **blockchain**-based authentication with **Ethereum** smart contracts.
- Enhanced site security by **70%**, as measured by security audits, by integrating **Google reCAPTCHA** using **AWS CodePipeline**.

Frontend Developer Intern | TGH Technologies, Remote

May 2022 - Aug 2022

- Improved user engagement by **30%**, as measured by interaction metrics, by developing features with **React.js** and **Redux Toolkit**.
- Achieved a **30%** increase in user acquisition by creating an advanced admin dashboard with **Chart.js**.
- Enhanced user satisfaction by **20%** and reduced support inquiries by **25%** through a **UI** revamp of Boring Bots.

Open-Source Contributor | GirlScript Summer of Code, Remote

Mar 2021 - May 2021

- Ranked in the top **3%** of **1300+** participants by enhancing multiple **open-source** projects.
- Contributed to **12+** projects, implementing **data structures**, **algorithms**, and **front-end** features using **JavaScript**, **React**, and **HTML/CSS**.
- Collaborated on **GitHub**, utilizing version control and issue tracking for efficient **teamwork** and **project management**.

PERSONAL PROJECTS

MLProject | Website | Source Code

Jun 2024 - July 2024

- Created an end-to-end machine learning project, MLProject, achieving a **95%** accuracy rate in predicting laptop prices using advanced **machine learning** techniques.
- Implemented a **CI/CD** pipeline with **GitHub Actions** and **Docker**, ensuring efficient model deployment on **AWS EC2**, reducing deployment time by **40%**.

VisionaryLab | Website | Source Code

Apr 2024 - May 2024

- Developed an **AI SaaS** platform for image transformations, utilizing **Next.js** and **TypeScript** for the frontend and backend, **Kafka** for real-time data streaming, and **TensorFlow** for machine learning, reducing processing time by **40%**.
- Integrated **Cloudinary AI** for image processing, **MongoDB** for database management, **Clerk** for secure authentication, and **Stripe** for seamless payment processing, resulting in a **20%** increase in transaction reliability and a **15%** boost in user trust.

VidLounge | Website | Source Code

Mar 2023 - Apr 2023

- Developed a full stack video platform with a mobile-responsive UI using **React.js** and **Tailwind CSS**, optimizing video load times by **35%** through the efficient use of **Cloudinary** for video storage.
- Implemented robust user authentication and authorization using **Node.js** and **Express.js** for the backend, and managed data with **MongoDB**, ensuring secure access and reducing security incidents by **50%**.

ACHIEVEMENTS

- Achieved recognition in multiple hackathons and coding competitions, including winning the Grand Finale in **Smart India Hackathon 2022**, 2nd Runner-Up in **Tally CodeBrewers**, and "Best Use of Postman and API" award at **PsychHack 2022**.