

PRABHAT KUMAR

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EDUCATION

National University of Singapore

Aug 2022 - Present

Bachelor of Computing in Computer Science

- Awarded with NUS Science & Technology Undergraduate Scholarship.
- Specialisation in Artificial Intelligence & Software Engineering.
- Relevant course work: Software Engineering, Artificial Intelligence, Natural Language Processing, Data Structures and Algorithms, Database systems, etc.

Kendriya Vidyalaya No. 2 AFS Pune

Aug 2019 - Sep 2021

CBSE Class 12th

- Highest Scorer in School and Mumbai Region with overall score of 97.6% .
- Merit Certificate for being in the Top 1.5% of Students in KVS.
- Relevant course work: Mathematics, Chemistry, Biology, Physics, English and Computer Science.
- Qualified NTSE, Pre-RMO, RMO Olympiads.

WORK EXPERIENCE

HypotenuseAI (Singapore), Full Stack Developer Intern

Jun 2025 - Present

- Performed across the full stack, handling frontend (React), backend and DevOps tasks, revising deployment speed by 30%.
- Automated data integration with External PIMs, streamlining process automation workflows for multiple enterprise clients increasing Import workflow speed by 80%.
- Iterated rapidly on new features based on real user feedback, decreasing feature delivery timelines by 40%.
- Functioned in a fast-paced, cross-functional startup environment, coordinating effectively with engineering, product, and design teams to launch a customer onboarding feature; Increased user activation within 2 months.

Block71 Global (Singapore), Software Developer Intern

Jul 2024 - May 2025

- Collaborated with the development team to design and implement intuitive user interfaces for web applications reducing the development time by 25%.
- Optimised front-end components while integrating seamlessly with backend systems improving overall performance by 30%.
- Collaborated with project leads over a 10 month internship to build and enhance the Content Management Platform as well as optimise the Performance for website by 30% using Best Web Development practices.
- Conducted thorough testing and debugging across 5+ browsers and devices for better performance and user experience.
- Utilised Technical Stack - HTML, CSS, Javascript, NodeJS.

National University of Singapore (Singapore), Undergraduate

Aug 2023 - May 2025

Teaching Assistant

- Mentored 6 students in CS1101S: Programming Methodology (Teaching Score: 4.8/5.0), exploring recursion, iteration, and core algorithms.
- Instructed 25 students on CS2040S: Data Structures & Algorithms (4.8/5.0), including trees, graphs, and dynamic programming.

- Led 20 students in CS2030S: Programming Methodology II (4.4/5.0) going through the concepts of Object-Oriented and Functional Programming.
- Taught CS2102: Databases (4.7/ 5.0) - SQL query optimisation and database system design to boost data management skills.
- Delivered CS3263: Foundations of AI (4.4/ 5.0) lessons based on Bayesian Networks, Probabilistic Models, and Generative AI techniques.

Zerdence Technologies LLP (Gorakhpur , India), Co-Founder , Full

May 2020 - Oct 2023

Stack Developer

- Co-founded Zerdence Technologies (formerly Blaze Consultancy Services) to provide IT solutions for businesses.
- Led full-stack development of production-grade applications, leverage modern technology stacks achieving upto 45% optimisations in client's project.
- Managed a 50+ member cross-functional team (Technical, Marketing, Sales, HR) to implement quality software and support.
- Developed IT solutions to 100+ businesses, streamlining operations through custom software development.

HopeTides (Gorakhpur, India), Co-Founder & CFO

Nov 2019 - Oct 2023

- Established an NGO during COVID-19 to provide food & medical resources and continued post pandemic.
- Developed a Telegram bot & website for real-time ICU/Oxygen Bed tracking, serving 10,000+ families during Pandemic.

TECHNICAL PROFICIENCY

Front-end : JavaScript, ReactJS , NextJS

Backend-end : Java, Rust, GoLang, C/C++

General Programming Languages: Python

Databases : Postgresql, MongoDB, Casandra , MySQL

Mobile Application : Dart , Flutter, React Native

DevOps: Docker, Kubernetes, Jenkins, Github Actions, AWS, Google Cloud

PROJECTS

- Quest AI - AI Powered LMS for Students using Generative AI
- D3D Market Scanner - Forex Market Analyser Mobile Application for Retail Trader
- Edu link NUS - Utility Application for Professors to keep track of past students
- Lucky Jinx - An online collaborative platform for coders to match and solve DSA questions together
- Extractive QA NLP - a transformer based Extractive QA model with 0.85 F1 Score
- Traffic Simulation Agent - a reinforcement learning agent, regulates the traffic reducing the overall emission and waiting time

AWARDS & SCHOLARSHIP

- NUS Science & Technology Undergraduate Scholarship - One of 7 Indian Students awarded with Scholarship in Class of 2026 covering tuition fee and living expense for entire undergraduate studies
- NUS Student Tutor Honour List (2024) – Recognized for outstanding teaching contributions as an Undergraduate Teaching Assistant
- National Talent Search Exam (NTSE) Scholarship - All India Rank 2nd