

PRABHAT KUMAR

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EDUCATION

National University of Singapore (NUS)

Aug 2022 - May 2026

Bachelor of Computing in Computer Science (Distinction)

- 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 (YC S20) (Singapore), Software Engineer

Jun 2026 - Present

- Own full-stack features end-to-end — React frontends, backend services, and CI/CD — for an AI content platform used by enterprise clients.
- Build AI-powered workflows on top of generative models (LLMs), turning into reliable, production-grade product features.
- Ship fast against real user feedback, taking features from prototype to production and iterating in tight loops.

HypotenuseAI (YC S20) (Singapore), Software Engineering Intern

Jun 2025 - May 2026

- 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%.
- Optimised Database Query and utilised indexes to reduce the load time of platform by 75%.
- Implemented a Redis cache layer to decrease the Database load and improving the latency of platform.

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.
- Utilised Technical Stack - HTML, CSS, Javascript, NodeJS.

National University of Singapore (Singapore), Undergraduate Teaching Assistant

Aug 2023 - May 2025

- 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 Stack

May 2020 - Oct 2023

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.

TECHNICAL SKILLS

Front-end : JavaScript, ReactJS , NextJS

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

General Programming Languages: Python

Databases : Postgresql, MongoDB, Casandra , MySQL, Redis

Mobile Application : Dart , Flutter, React Native

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

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
- Toon Rust - Open source performant Rust implementation of JSON to TOON format , 1.5k+ Downloads
- 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 , 2025) – Recognised for outstanding teaching contributions as an Undergraduate Teaching Assistant
- National Talent Search Exam (NTSE) Scholarship - All India Rank 2nd