Prabhat Kumar Sharma

Software Engineer

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EDUCATION

M.Tech. (Computer Technology)	Indian Institute of Technology(IIT), Jammu	8.60 / 10	2020-2023
B.Tech. (Computer Science)	NSUT East Campus (Formerly AIACTR) , New Delhi	8.27 / 10	2016-2020

TECHNICAL SKILLS

- **Programming & Query Languages:** TypeScript, JavaScript, Python, C/C++, Golang, PHP
- **Databases:** MySQL, MongoDB, PostgreSQL **API Protocols:** REST, gRPC, GraphQL, WebSocket
- **Libraries**/**Frameworks:** React, Node.js, Express.js, Django, Pandas, Numpy, scikit-learn, JQuery, D3.js
- **Tools:** Jenkins,Git, Perforce, Postman, AWS, Docker, Kibana, ElasticSearch, HTML, CSS

EXPERIENCE

- **Software Engineer** *Bengaluru, IN*
  Mathworks India Pvt. Ltd. Aug. 2023 – Present
  - Upgraded the Qt version, boosting organization-wide security and driving compatibility updates across teams.
  - Designed a comprehensive error-reporting feature for lookup table data structures using **JavaScript** and **QUnit**, allowing users to identify all data issues at once and cutting object reload times by 95%.
  - Built a MATLAB application for equivalence testing on Simulink models, improving validation processes.
  - Created a feature for Simulink blocks, enhancing resize and orientation control, and improving model organization and productivity by integrating C++ with a JavaScript wrapper.
  - Developed a classification model to optimize the build & test engine with 92% accuracy.
  - **Tech Stack**: JavaScript, C++, QUnit, NodeJS, ReactJS, MATLAB, Simulink

- **Software Development Engineer -Intern** *Gurgaon, IN*
  Zomato Limited Aug 2022 – Jan 2023
  - Formulated backend logic, optimizing search time of healthy business by 10x.
  - Implemented backend tracking and feature experiments in Go to analyze user behavior, enhancing business flow understanding.
  - Designed consumption notification flow for delivery charge packs, increasing selling count by 5 million.
  - Developed new APIs for zomato's free delivery packs, resulting in a 20% increase in average order value.
  - **Tech Stack**: GoLang, gRPC, Git, PHP, MySQL, Elastic Search, Solr, Docker

- **Software Engineering -Intern** *Remote, London*
  Toastbeat Ltd. UK May 2021 – July 2021
  - Developed new APIs to seamlessly support primary and mandatory functionalities on Rentoncloud.
  - Boosted Rentoncloud's API performance by 40% with GraphQL and NodeJS, slashing DOM rendering time.
  - Documented the API flow for Invoice and Legal Registration Modules.
  - Rectified 95% of authentication and code module issues, ensuring seamless user onboarding.
  - **Tech Stack**: GraphQL, Git,React.Js, Node.Js

- **Full Stack Developer -Intern** *Remote, Singapore*
  LearnCool Pte. Ltd. May 2019 – Nov 2019
  - Architected GitLab API-driven version control, transforming document management with real-time updates.
  - Engineered a student-friendly pull request feature, enhancing course content collaboration.
  - Developed React and MongoDB quiz-game, surpassing 100 users within a month.
  - Implemented location-based payment gateway selection, increasing revenue by 15%.
  - Designed and maintained Graphql and Node.js APIs.**Tech Stack**: React.Js, Node.Js, MongoDB etc.

PROJECTS

- **Weather Forecasting System** *2023*
  Implemented Real-World Forecasting stations at IIT Jammu for accurate landslide prediction.
  - The system is currently operational at the institute, serving diverse research activities.
  - **Tools & technologies used**: Python, Numpy, Pandas, Sklearn, IoT

- **Mobile Theft Protection** *2022*
  Sensor-enabled IoT applications empower mobile devices to detect motion and acceleration, triggering timely alerts.
  - **Tools & technologies used**: HTML, CSS, ThingSpeak, MATLAB, Javascript

- **Train App** *2022*
  Developed a comprehensive train booking application with a wide range of features.
  - Elevated user experience with live train status, streamlined search, and dynamic seat availability tracking.
  - Implemented a secure payment gateway integration ensuring smooth transactions.
  - Engineered an intelligent recommendation system for personalizes travel suggestions.
  - **Tools & technologies used**: PHP, MySQL, JQery, REST APIs, Git