

PRABHAT SINGH

Indian Institute of Technology, Guwahati

@ iitg.prabhat@gmail.com

+91-9450995605

in linkedin.com/in/prabhatiitg43/

github.com/Pra-cs

@ https://leetcode.com/u/Prabhat_iitg/

@ https://www.geeksforgeeks.org/user/vishalsinghgpl/

EXPERIENCE

Software Engineer | Xhipment

March 2023

- Designed and implemented APIs for charge code, vendor management, and shipment execution.
- Developed a PDF invoice generation feature for both customer and admin portals on Xhipment.com.
- Built a real-time shipment status export feature in Excel for the admin portal.

Software Engineer | Esper

July 2022 - Dec 2022

- Built a CLI tool for Esper Cloud API for sanity checks, reducing manual debugging time by 40%
- PagerDuty daily and weekly incident summaries for Slack channels using Jenkins, improving incident management efficiency.
- Built and optimized Esper's backend services with Skyfall integration in Tesseract, and automated CI/CD pipelines using Jenkins.
- Collaborated in an Agile development environment, actively participating in sprint planning, daily stand-ups, retrospectives, and sprint reviews.

PROJECTS

Custom E-Commerce Platform | Full-Stack Application

Oct 2023

- Built a MERN-based eCommerce platform with JWT authentication, PayPal/credit card payments, and an admin dashboard for managing orders, products, and users. Implemented product search, reviews, ratings, pagination, and a dynamic carousel.

Tech Stack: React, Node.js, Express, MongoDB, JWT, PayPal API

Real-World Backend for a Bootcamp Directory Application

July 2023

- Built DevCamper, a robust backend API for a bootcamp directory. This project covers RESTful API development, authentication, authorization, database management, geospatial queries, file uploads, and security best practices.

Tech Stack: Node.js, Express, MongoDB, Postman.

Testing And Verification of Autonomous Aircraft Taxi.

June 2022

- Worked on testing and verification of autonomous aircraft taxiing in cyber-physical systems, identifying bugs, detecting adversarial attacks, and analyzing deep neural network (DNN) efficiency, robustness, and internal structure.

Tech Stack: Codeocean, NNV, Matlab, Python

Multi-stage DNS Resolving System

May 2021

- Developed a two-stage DNS resolver system to resolve domain names to IP addresses and vice versa, optimizing query processing and DNS server communication.

Tech Stack: C++, Socket Programming

EDUCATION

- M.Tech in Computer Science

Indian Institute of Technology, Guwahati

Sep 2020 - Jun 2022

- B.Tech in Computer Science

Institute of Engineering Technology, Lucknow

Sep 2015 - May 2018

SKILLS

- Programming:** Python, C++, C, JavaScript*

Frameworks & Libraries: Node.js, Django, Express, React

Databases: SQL, MongoDB (NoSQL)

DevOps & Tools: AWS, Docker, Jenkins, Git, Postman

COURSEWORK

- Data Structures & Algorithms
- Database Management System
- Artificial Intelligence
- Operating Systems
- Design And Analysis of Algorithms

ACHIEVEMENTS

- GATE 2020:** Secured 99.03%ile among 100K candidates appearing for the test.

Teaching Assistant: CS-110

Computing Lab in Dept. of CSE, IIT Guwahati

Placement Volunteer: Worked as a Placement Volunteer in placement cell 2020-21, IIT Guwahati