Prabhleen Kaur Saini

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Education

- **The University of Texas at Dallas** — Dallas, TX
  Masters of Science in Computer Science; CGPA: 3.89 — *August 2022 – May 2024*
- **Institute of Engineering and Technology (IET)** — Indore, India
  Bachelor of Engineering, Computer Engineering; GPA: 8.8 / 10.00 — *August 2018 – July 2022*

Technical Skills

- **Languages** Python, HTML, CSS, JavaScript, Node.js, React, Ruby on Rails, PHP
- **Databases/ Cloud:** SQL and NoSQL databases, Git, Redis, MongoDB, PostgreSQL
- **Other:** RESTful Web Services, Linux, Windows, Docker, JIRA, MVC, AWS, CICD, TDD

Experience

- **TraxID** — Dallas, TX
  Software Development Intern — *January 2024 - Present*
  · Maintain and develop full stack web application, perform functionality and system testing of new features written in C, ASP.NET, SQL, React.js
- **The University of Texas at Dallas** — Dallas, TX
  Teaching Assistant — *August 2022 - December 2023*
  · Collaborating with a team of 5 TAs, providing support for software engineering, data structures and algorithms courses.
  · Developed course assignments and solutions, provided code review, responsible for assessing in-class comprehension by asking insightful questions to students.
- **Josh Software Pvt Ltd** — Pune, India
  Software Development Intern — *January 2022 – July 2022*
  · Transformed a legacy 9-year-old Rails-React project by addressing critical user issues and implementing UI enhancements. Achieved a remarkable 45% reduction in user-reported issues.
  · Developed a dynamic custom data visualization module using Recharts to render consumption patterns based on time.
  · Optimized API performance by implementing Redis, reducing load time from 27 seconds to an impressive 3 seconds.
  · Contributed on multiple levels feature building, testing and documentation, conducted comprehensive sanity testing, resolved 15+ bugs in the software reducing customer support issues by 40%.
- **NLiven** — Indore, India
  Software Engineering Intern — *January 2021 – July 2021*
  · Implemented normalization techniques, SQL joins to optimize complex queries involving multiple tables. Achieved over 30% efficiency improvement.
  · Improved chatbot capabilities for efficient decision-making, task updates, progress analysis, and report generation
  · Optimized chatbot response time and expanded its capabilities using AWS Lex, Lambda, Aurora, and Python

Projects

- **Theme Store Online Shopping Website (React, Node JS, MongoDB)** — *Fall 23*
  · Developed a full-fledged shopping website, enabling users to purchase merchandise related to their favorite themes.
  · Implemented secure user authentication, authorization, and session management using Passport.js and react hooks.
  · Integrated searching and filtering capabilities, order placement components, along with exclusive inventory management (CRUD operations) for admin users.
- **Workflow Management Software (React, Node.js, Javacript, MySQL)** — *Summer 23*
  · Developed full-stack software including features like - task assignment, payroll, HR, client requests and more
  · Integrated third-party tools such as Amazon's SNS and Firebase for client communication and authorization
- **Dallas Crime Prediction (Bagging, AdaBoost, Gradient Descent, Ensemble Methods)** — *Spring 23*
  · Cleaned and processed 1 billion data points from the Dallas Police Incidents dataset
  · Conducted an in-depth data analysis of the dataset, created visualizations to understand crime patterns and trends.
  · Developed and fine-tuned models achieving 81% accuracy in identifying high-crime divisions based on specific day and time

Publication

- **Disease Identification in Crops Using Deep Learning Models** — *November 2021*
  · A. Trisla and P. Saini, "Disease Identification in Crops Using Deep Learning Models", International Conference on Advances in Engineering, Science and Management (ICAESM-2021), 2021 and accepted for publication in the Volume-10 Issue-6 of JMPAS, November-December 2021. (UGC Care II, SCOPUS listed journal)

Volunteering and Achievements

· Winner TechTogether Hackathon August 2023, developed a healthcare technology solution in 24 hours, to provide instant access to medical loans, based on user's physical activity data.
· Delivered online lectures on Problem Solving with Java as part of a university's outreach program, reaching a global audience.