Harsimran Singh Dhillon

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Education

Binghamton University, Watson College of Engineering — Binghamton, USA
Masters of Science, Computer Science - (GPA: 3.67) — August 2023 - May 2025
Relevant Coursework: Data Structures and Algorithms, Operating Systems, Programming Languages, Database Systems

Pune University, K. K. Wagh Institute Of Engineering Education And Research — Nashik, India
Bachelor of Engineering, Computer Engineering - (GPA: 3.64) — August 2017 - June 2021
Relevant Coursework: Object Oriented Programming, RDBMS, System Programming, Cloud Computing

Skills and Interests

Programming & Web Development: Java, Python, C, C++, React, Angular, JavaScript, HTML, CSS, TypeScript
Backend & Database: MySQL, MongoDB, Oracle, Apache Camel, Spring Boot
Project Management: Git/Github/Gitlab, Jenkins, Jira, Agile & Scrum
Frameworks & Tools: Amazon Web Services (AWS), Kubernetes, Workflow, Gradle, Node, Figma, Postman, IntelliJ IDE, Visual Studio Code, Android Studio, Swift, Application Development, HTTP, YAML, XML, REST API, JSON

Work Experience

Analyst, Software Developer — Pune, India
TIAA GBS — July 2021 - July 2023

- Implemented agile methodology for continuous integration and support during critical 4-month API migration from Mule framework to Apache Camel
- Reduced response times during server outages by 40% by analyzing and resolving complex issues, and supporting the testing team to validate acceptance criteria while optimizing the CI/CD of a REST API
- Resolved an application server crash issue in the production environment by preserving 40% of the memory used; addressed production issues and enhancements; and offered DevOps support for 4 applications
- Automated a human task of closing thousands of requests using queries and a scheduler to minimize manual effort by 35%

Machine Learning Intern — Nashik, India
Cognifront — June 2020 - July 2020

- Delivered Attendance Marking System to the client to reduce manual labor by 25% and paper waste by 40%
- Analyzed and implemented Decision Tree algorithm, KNN algorithm, and SVM algorithm
- Evaluated a project to study accuracy and error obtained for a particular data set using 4 different algorithms

Project

Depression Detection System, Full Stack Developer | Group Project — April 2021

- Led a team of 3 to design a machine learning project based on 3 modules namely Facial features, Acoustic features, and PHQ-9 questionnaire to detect depression
- Created and built the website's UI using Angular and JavaScript to integrate all the 3 components
- Implemented the backend module to extract the facial features with an accuracy of 86%

Online Food Ordering Application, Frontend Developer | Group Project — March 2020

- Created an online meal ordering website using web technologies like Angular, JavaScript, HTML, CSS, and MySQL database
- Led the design and implementation of the website's frontend and the development of backend data mapping using Angular and JavaScript
- Revamped website performance and decreased latency by 20% through data caching and search engine optimization strategies

Clinic Staff Attendance System, Full Stack Developer | Group Project — March 2019

- Revamped the accuracy of an existing machine learning model by feature selection to achieve an accuracy of 87%
- Led the design and implementation of the website's user interface (UI) and the development of back-end data mapping using Vue.js and JavaScript

Extracurricular Activities

- Multicultural Event Planning Committee Member - Graduate Student Organization
- Played inter-collegiate football tournament for 3 consecutive years(2018-2020), 2 times runner-up in KSF football tournament(2019-2020), and represented the Nashik district in a football tournament

Publication

- Research paper - **Machine Learning-Based Depression Classification Model** in the IJCRT journal (ISSN: 2320-2882 and Impact factor: 7.97)