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: Design & Analysis of Algorithms, Operating Systems, Programming Languages, Database Systems

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, Data Structures & Algorithms, System Programming, Cloud Computing

Skills and Interests

Programming & Web Development: Java, Python, C++, React, Angular, JavaScript, HTML, CSS
Backend & Database: SQL-MySQL, NoSQL-MongoDB, Oracle, Apache Camel, Spring Boot, RESTful API, JSON, SOAP
Project Management: Git/Github/Gitlab, Jenkins, Jira, Agile & Scrum
Frameworks & Tools: Node.js, Amazon Web Services (AWS), Openshift, Gradle, Postman, IntelliJ IDE, Visual Studio Code, Android Studio, Selenium

Work Experience

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

- 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 — June 2020 - July 2020
Cognifront — Nashik, India

- Delivered Attendance Marking System to the client to reduce manual labor by 25% and paper waste by 40%
- Revamped the accuracy of an existing machine learning model by feature selection to achieve an accuracy of 87%

Project

Depression Detection System — 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 — March 2020

- Created an online meal ordering website using web technologies like Angular, JavaScript, HTML, CSS, and MySQL database
- Collaborated with the UI web design and worked on the full stack implementation to increase customer engagement
- Led the design and implementation of the website's user interface (UI) and the development of back-end data mapping using Angular 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)