





Dhruv Malhotra

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SKILLS

Languages/Libraries/AI & ML: Python, Django, PyTorch, Pandas, TensorFlow, Flask, Laravel, Java, React.js, C/C++, Swift
Operating Systems/Cloud: Linux, macOS, Windows, AWS EC2, dbt, Snowflake, Twilio
Applications: Jupyter Notebooks, Jira, Docker, Jenkins, Tableau, Looker, MySQL, PostgreSQL, Browserstack, Postman
Tools and Technologies: Git, AWS Lambdas, JUnit, RESTful APIs, Web Components, Maven

WORK EXPERIENCE

Software Engineer, Yunex Traffic Austin TX | July 2023 – Present

- Developed and implemented real-time traffic management software using Python showcasing strong skills in complex software system design and maintenance, improving traffic flow efficiency by 15% in urban areas.
- Utilized technologies like MySQL for efficient data handling and React for user interface development.
- Led the integration of AI and machine learning algorithms using tools like TensorFlow and Python for predictive traffic analysis, reducing congestion during peak hours by 20% and reducing operational costs by 30%
- Played a key role in migrating legacy systems to cloud-based platforms, leveraging AWS and containerization tools like Docker and Kubernetes, achieving a 30% increase in system reliability
- Implemented testing protocols using Pytest, ensuring a 98% success rate in bug resolution
- Collaborated with cross-functional teams in the design and deployment of a city-wide intelligent traffic light system. Employed motion detectors for sensor integration and Snowflake and Jupyter Notebooks for data aggregation and analysis, enhancing road safety and reducing average travel times.

Software Engineer, Givelify Austin TX | May. 2020 – July 2023

- Collaborate cross-functionally with agile engineering, product, and quality teams to develop and deploy a recommendation engine using Python and Pytorch, elevating user retention by 25% and engagement by 20%.
- Refined search capabilities using Python and React, benefitting 10k+ daily users by boosting efficiency by 15%.
- Enhanced application performance using optimized data structures Python, improving speeds by 35%.
- Integrated AI/ML tools with existing tech stack, contributing to innovation and platform scalability, as well as Geocoding services using Google API and LocationIQ, enhancing location-based search for 5k+ daily users.
- Fortified security measures using AWS EC2, slashing data breaches by 60%.
- Supervised 20+ deployments using Docker and Jenkins, maintaining a 99.9% uptime.

Junior Software QA Developer, Nourtek Dallas, TX | October 2019 – May 2020

- Led 500+ software tests using Junit, enhancing software reliability by 20%.
- Handled 100+ GitHub pull requests using Git, fortifying feature quality.
- Piloted regression testing using Jira, cementing software stability across 25+ releases.
- Supervised performance tests using MySQL and PostgreSQL, ensuring 95% user satisfaction.
- Innovated QA methodologies using Jira and Browserstack, boosting product quality by 30%.

Navy Corpsman, United States Navy Okinawa, JP | July 2011 – July 2016

- Managed medical care for 4.5k servicemembers: checkups, immunizations, preventative care.
- Attached to S-2(Security and Intelligence Division) ensuring security clearances of 3000 servicemembers.

EDUCATION

Bachelor of Science in Computer Science

University of Texas at Dallas, Richardson, TX | Aug. 2018 - Dec 2021