

# Jasmeetsingh Khalsa

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## EDUCATION

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### Washington State University

Pullman, WA

Master of Science in Computer Science, 3.86

Jan. 2021 – Dec. 2022

### University of Mumbai

Mumbai, IN

Bachelor of Engineering in Computer Engineering, 3.0

June 2015 – May 2019

## EXPERIENCE

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### Intel Corporation

Hillsboro, OR

Software Engineering Intern

May 2022 – Nov. 2022

- Wrote scripts employing **HTTP** requests and internal database query language to consolidate multiple internal defects tracking systems, improving efficiency of multi-functional development organization
- Rapidly developed **15** patch scripts to resolve business-critical issues in defect tracking system while exceeding deadlines to maintain stakeholder productivity
- Refactored **Githook** scripts that reduced code duplication, reduced maintenance burden, improved flexibility by enhancing the modularity and enable more customer control.
- Developed Unit test scripts using **Pytest** to test Githook scripts and prepared test reports resulting in a increased bug detection speed by **30%**
- Automated documentation process in intel project using comments in code through **doxygen**

### Unobot Inc.

Mumbai, IN

Software Development Engineering Intern

Nov. 2020 – Feb. 2021

- Designed **REST APIs** for usage of application to integrate various social media platforms
- Integrated different mediums like Twitter, Android Play Store using **APIs** provided by respective platforms
- Developed **SQL** triggers, functions & stored procedures, SQL queries & tuned **PL/SQL** queries using PL/SQL developer
- Migrated SQL queries to **Django ORM** to provide faster processing of data

## PROJECTS

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### Customer Management System | Python, Django, React, PostgreSQL, APIs, AWS

Jan. 2023 – Mar. 2023

- Developed the backend **RESTful APIs** for a Customer Management Platform using **Django**
- Developed the user login and customer content frontend features with **React, HTML, CSS, JavaScript**
- Designed database tables in **PostgreSQL** and performed data operations using **Django ORM**
- Deployed both backend and frontend applications on a **AWS & Heroku**

### Toxic Comment Classifier | Python, Scikit Learn, Nltk, Numpy, Machine Learning

Sep. 2021 – Nov. 2021

- Performed **Exploratory Data Analysis & Feature Engineering** to understand key performance indicators
- Restructured preprocessed data into feature vectors using TF-IDF Vectorizer to leverage **multi-label classification**
- Implemented Logistic Regression, KNN, Multinomial Naïve Bayes and Random Forest classifiers on transformed data and obtained average F1 score of **89.48%** for each label
- Increased accuracy score from 89.48% to **96%** by applying Hyper-parameter tuning and Ensemble Learning

### Sorting Visualizer | Python, Tkinter, Algorithms

Nov. 2020

- Developed a **Python GUI** application to help visualize sorting algorithms in action
- Implemented design principles from Johnson and Norman texts to create a **well-structured & intuitive UI** for project
- Successfully implemented **6** most popular sorting algorithms

## SKILLS

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**Languages:** Python, Java, C/C++, C#, JavaScript, HTML/CSS

**Technology:** Django/Flask, Spring, React, MySQL, PostgreSQL, MongoDB, Redis, REST APIs, JSON/XML

**Developer Tools:** Git, VS Code, Anaconda, IntelliJ, Eclipse, AWS, Azure, Figma