

# 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*

- Developed a infrastructure using **Python** to allow teams to store & track new architectural initiatives (ideas) in team
- Wrote scripts in **Python** employing **HTTP** requests and internal database query language to consolidate multiple internal defects tracking systems, improving efficiency of multi-functional development organization
- 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 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 & developed **REST APIs** for usage of application to integrate various social media platforms
- Integrated mediums like Twitter, Android Play Store using their **APIs** and tested them using **Postman**
- Developed **SQL** triggers, functions & stored procedures, queries & tuned **PL/SQL** queries using PL/SQL developer
- Developed **Django** class models based on SQL queries in **PostgreSQL** to provide efficient data processing

## PROJECTS

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

*Jan. 2023 – Mar. 2023*

- Developed a CRM portal that performs **CRUD** operations to help business maintain their shipments
- Added User Authentication, Password reset feature, Added customized dynamic content for admin & customers with **Django, HTML, CSS & JavaScript**
- Created database in **PostgreSQL** & designed, developed and migrated data using **Django ORM**
- Deployed database to **AWS S3** and web app to **Heroku** with **Gunicorn**

### 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, Postman