

# Jasmeetsingh Khalsa

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## EDUCATION

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### Washington State University

Master of Science in Computer Science, 3.86

Pullman, WA

Jan. 2021 – Dec. 2022

### University of Mumbai

Bachelor of Engineering in Computer Engineering, 3.0

Mumbai, IN

June 2015 – May 2019

## EXPERIENCE

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### Intel Corporation

Software Engineering Intern

Hillsboro, OR

May 2022 – Nov. 2022

- Developed a **Python**-based infrastructure to allow teams to store & track new architectural initiatives collaboratively
- Developed **Python** scripts utilizing **HTTP** requests and internal database query language to consolidate multiple internal defect tracking systems, resulting in improved efficiency for a multi-functional development organization
- Optimized **Githook** scripts by refactoring the codebase to reduce code duplication, lower maintenance overhead, and enhance flexibility through improved modularity, resulting in better customer control
- Implemented **Pytest** based Unit tests for Githooks, enhancing bug detection speed by 30% & overall code reliability
- Automated documentation process in EdkRepo using comments in code through **doxygen**

### Unobot Inc.

Software Development Engineering Intern

Mumbai, IN

Nov. 2020 – Feb. 2021

- Designed & developed **REST APIs** to facilitate integration with various social media platforms
- Performed thorough testing using **Postman** to ensure seamless operation of **APIs**
- Developed **SQL triggers, functions & stored procedures** and refined **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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### Online Shopping Center | JavaScript, Python, React, Django, Redux, PostgreSQL, AWS

Mar. 2023 – Apr. 2023

- Developed a complex feature rich Full-Stack shopping website with comprehensive **Frontend, Backend & Database**
- Developed the backend **RESTful API** for an online shopping center using **Django**
- Developed the user login, shop content frontend components with **React.js, HTML, CSS, JavaScript, Bootstrap**
- Implemented State Management for website using **Redux** to facilitate scalable and efficient application updates
- Designed, developed tables using **Django** class models and migrated data over to **PostgreSQL**
- Utilized **AWS S3** for scalable database deployment and **Heroku** with **Gunicorn** for seamless Web app deployment

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

Jan. 2023 – Feb. 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

## 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, Jenkins, Jira, Postman, Heroku