# Tanay Godse

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## EDUCATION

**San Jose State University** *San Jose, CA*
Master of Science, Computer Science(GPA: 3.9/4) *August 2023 – May 2025*

**University of Mumbai** *Mumbai, India*
Bachelor of Engineering, Computer Engineering(GPA: 8.87/10) *August 2017 – June 2021*

## TECHNICAL SKILLS

- **Programming Languages:** C, C++, C#, CSS, HTML, Java, JavaScript, PHP, Python, TypeScript
- **Tools and Technologies:** Android Studio, ANTLR,  Arduino, ASP.NET, AWS, Bash, Celery, Express, FastAPI, Flask, Git, IIS, JQuery, Jira, JUnit, Linux, Makefile, Node, Postman, React, Selenium, SQLAlchemy, Zend
- **Data and ML Technologies:** Hadoop, HBase, Hive, HuggingFace, Keras, Mahout, Matplotlib, MongoDB, MSSQL Server, MySQL, NLTK, NumPy, Pandas, PyTorch, Redis, SAP Analytics Cloud, Scikit-Learn, Spark, textblob

## WORK EXPERIENCE

**Software Engineer Intern, Moody's,** Newark, CA *June 2024 – August 2024*
*Python, PostgreSQL, FastAPI, SQLAlchemy, Github, Celery, Redis*
- Designed a priority-based distributed job scheduler framework to improve resource utilization
- Developed RESTful APIs using FastAPI for the job distributor and worker components for job scheduling
- Utilized PostgreSQL and SQLAlchemy ORM to implement a heartbeat mechanism for failure detection and recovery
- Upgraded an internal tool leveraging Celery and Redis, significantly improving its performance and security

**Software Developer, Depronto Infotech,** Mumbai, India *July 2021 – July 2023*
*PHP, HTML, CSS, JavaScript, JQuery, MSSQL, C#, ASP.NET, Zend, IIS, Git*
- Planned and implemented client requirements for a project management application used by over 5000 employees
- Developed key modules like monthly reporting, discussion boards, auto-mailers and cronjobs for daily user sync
- Optimized existing queries and stored procedures by evaluating query execution plans and using indexes effectively
- Implemented server-side pagination improving application load times by up to 50%
- Maintained a Content Management System built using ASP.NET and C# managing 1000s of articles.

**Data Analyst Intern, Atos Syntel,** Mumbai, India *May 2020 – July 2020*
*Python, SAP Analytics Cloud, beautifulsoup, textblob*
- Scraped data using beautifulsoup and performed sentiment analysis using textblob for over 2000 staff reviews
- Created multiple insightful dashboards for data visualization using SAP Analytics Cloud

**Data Engineering Intern, NeuroByte Ventures,** Thane, India *June 2019 – August 2019*
*Python, Selenium Web Driver, PyOCR, textblob, MySQL*
- Scraped Bombay Stock Exchange (BSE) announcements using Selenium Web Driver for over 100 companies
- Implemented OCR and NLP techniques to extract and store data from PDFs in MySQL Database

## PROJECTS

**Programming Language Interpreter for Featherweight JavaScript**
*Java, JUnit, ANTLR, Makefile*
- Wrote an interpreter for Featherweight JavaScript, a subset of Javascript using Java
- Wrote parsing rules in ANTLR, unit tests for all expressions using JUnit and Makefile to generate all the executables

**AI Note Taking App**
*HTML, CSS, TypeScript, Node, React, MongoDB, Express, Python, Flask, HuggingFace, PyTorch*
- Developed a note taking application that accepts PDF files as input
- Evaluated several approaches for autocomplete such as LSTM, RNN and Transformers using PyTorch
- Added autocomplete feature using TextRank and Trie, and text summarization using DistilBERT from HuggingFace
- Used React, react-pdf-highlighter and TypeScript for the front-end, Node and Express for Backend, Flask to create APIs for summarization and completion and MongoDB to store the notes taken

**GloomPD**
*Python, Flask, Java, Android Studio, scikit-learn*
- Designed and developed an android application to predict PHQ-9 scores using Java and Android Studio
- Data processing using python, evaluated various models using the scikit-learn library, achieved an accuracy of 82%
- Developed an API using Flask to integrate the trained machine learning model into the Android application