

## Tanvi Samir Pisat

Los Angeles, CA, 90007 | pisat@usc.edu | 213-608-7130 | <https://www.linkedin.com/in/tanvi-pisat/>

### EDUCATION

**University of Southern California**, Los Angeles.

December 2021

Viterbi School of Engineering

*Candidate for Master of Science in Computer Science*, GPA: 3.9/4.0

**Related Courses:** Analysis of Algorithms, Database Systems, Web Technologies, Data Mining, Software Management

**Mumbai University**, Mumbai, India.

June 2019

*Bachelor's Degree in Computer Engineering*, GPA: 3.6/4.0

**Related Courses:** Data Structures, Analysis of Algorithms, Object-Oriented Programming Methodologies, Operating Systems, Software Engineering, Soft Computing, Machine Learning, Data Warehousing.

### TECHNICAL SKILLS

**Languages:** Python, Java, SQL, JavaScript, jQuery, C/C++, TypeScript.

**Databases:** Oracle, MySQL, PostgreSQL.

**Web/Mobile Technologies:** Angular, Express, Flask, NodeJS, Bootstrap, PHP, HTML5/CSS3, Android Studio, XCode.

**Cloud:** Google Cloud Platform.

**Tools/Systems:** Git, Unix/Linux, MacOS.

### WORK EXPERIENCE

**Business System Analyst**

July 2019-October 2019

*Axis Bank, Mumbai*

- Collaborated in a team to develop a Financial Document Management for automating document validation.
- Accomplished reduction in employee intervention by 30%.

**Web Developer Intern**

June 2018-July 2018

*36th Element Technologies, Mumbai*

- Built admin portal for inventory management system with XAMPP stack to simplify adding, deleting and updating products.
- Programmed required operations on a MySQL database and coded PHP scripts for interfacing frontend with the database.
- Conceptualized designs for multiple websites, actualized designs leveraging HTML, JavaScript, CSS, Bootstrap, PHP, etc.

**iOS Development Training**

December 2017

*VJTI, Mumbai*

- Engaged in an exclusive and funded training program for top 5 of students of the CS Department.
- Explored detailed development process of iOS apps in MVC paradigm and constructed an iOS app in XCode and swift.

### PROJECTS

**eBay Catalogue**

May 2020-June 2020

- Built full-stack Angular, Python and Android apps to search for products using eBay APIs over a period of 1 month.
- Implemented features such as filtered searching and assembled a sophisticated and clean shopping experience by leveraging pagination, animations and responsive web design.
- Established RESTful endpoints using Flask and Node.js for exposing data from eBay APIs and deployed it to GCP.

**Geospatial Data Analysis**

March 2020

- Created a spatial database in PostgreSQL and PostGIS to find Convex Hull and K-closest locations from a set of points.
- Implemented a script in JavaScript to generate a KML file from calculated results and visualized it employing Google Earth.

**Synonym Suggestion System**

July 2018-May 2019

- Led a team of 3 in building a Python application for giving grammar corrections and synonym suggestions in real time.
- Developed a RESTful endpoint to return suggestions and leveraged jQuery AJAX in frontend to access the system.
- Implemented algorithms in JavaScript for replacing words with synonym suggestions selected by end-user and also for applying grammar corrections to the given document.
- Achieved 70% improvement in time over existing synonym libraries such as WordNet and Thesaurus.
- Incorporated features such as uploading/downloading documents in Word/PDF format.

**Pong**

February 2018-March 2018

- Constructed a Pong game employing JavaScript and HTML5 and programmed a Bot to play against single players.
- Added support for a multiplayer lobby by creating a server in Express.js and utilized web sockets for connecting two users.

### PUBLICATIONS AND AWARDS

- "Synonym Suggestion System using Word Embeddings," **T. Pisat**, M. Bartakke and H. Patil, *4th International Conference on Trends in Electronics and Informatics*, 2020, IEEE Xplore, [ISBN: 978-1-7281-5518-0].
- Recipient of **International Award for Young People(Bronze Level)**.