# Tanvi Prakash Gavali

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# Educational Qualification

**University of Central Lancashire, United Kingdom** 2018-2022

Bachelor of Science with Honours in Software Engineering

Result: Award Honours Degree – First Class; Percentage: 75.40%

**Pace Junior Science College, Mumbai, India** 2016-2018

Higher Secondary Certificate; Percentage: 72.77%

**Nalanda Public School, Mumbai, India** till 2016

Central Board of Secondary Education; Percentage: 89%

# Professional Work Experience

**Systems Developer, Medication Management Robotics, Cheshire, United Kingdom**

Duration: 1 year (Industrial Placement) September 2020 - August 2021

* Planned new solutions with the managing director for future sales to clients, including key solutions underpinning over £100 million in company profits.
* Designed user interface layouts and MVC system architecture for new projects, including presenting design proposals and implementing these in Java Swing WYSIWYG plugins.
* Developed solutions including integrated systems with cloud based and data handling projects such as communicating over the web, developing and configuring their corresponding web services such as LAMP servers and AWS S3 servers.
* Deployed projects to run in the Java Runtime Environment, packaging libraries using SDK tools including the incubator module jpackage. Also created an installation package with a custom configuration to update versions in Windows.
* Collaborated with customers to provide quality assurance support and to provide new versions and updates for existing solutions, with improvements and fixes.

# Extracurricular Work

**PASS Leader, University of Central Lancashire, Lancashire, United Kingdom**

Duration: 2 years (Part-Time) September 2019-April 2020, September 2021-April 2022

* Facilitated foundation, first year and second year students with course materials and advice on university life.
* Lead four sessions a week with 15 students per session.
* Developed leadership, teamwork, and soft skills.

**Student Mentor, University of Central Lancashire, Lancashire, United Kingdom**

Duration: 1 month (Part-Time) 15th September 2019 – 15th October 2019

Helped first-year students to adopt scrum and agile methodologies and guided them in their marketing strategies during the four-week challenge conducted by the Department of Computing by my University.

**Open-Day Assistant, University of Central Lancashire, Lancashire, United Kingdom**

Duration: 1 year (Part-Time) 2019-2020

Introduced prospective students to the course material and facilities provided by the Department of Computing.

# Projects

**Final Year Project – Meal Management – Java**

Duration: 1 year Link: <https://www.youtube.com/watch?v=hBUAz37GJZ8>

Summary:

* Created a desktop application in Java which delivers meal plan solutions through recipe data retrieved from the *Tasty* API
* Developed both item-based and user-based custom recommender system algorithms to generate meal plans based on customer preferences.
* Implemented collaborative filtering (CF) to identify similar users and recommend recipes based on that data.
* Implemented a filter system to control returned recipes based on item tags such as cuisine.
* Catered to customer dietary needs by accounting for calorie intake, recipe difficulty, lifestyle, time available, etc. in a meal plan.
* Created and managed a MySQL database to generate and retrieve user data regarding favourite recipes and infer recommendations.
* Provided several user actions regarding the meal plan management such as favouriting, saving, and creating recipes and reflecting this in the database.

**Enterprise Project– C#, ASP .NET, MVC, EF-Core, WEB API, LINQ**

Duration: less than a month Link: <https://www.youtube.com/watch?v=PHteFNkQIsk>

Summary:

* Created a webservice in C# using the MVC framework for a live interactive game quiz app developed for a mobile device used by students.
* Developed a RESTful API using a code-first approach which navigates via HATEOAS JSON responses
* Verified and tested the solution using POSTMAN.

**Concurrency Project– Java**

Duration: less than a month Link: <https://www.youtube.com/watch?v=mDUJ3zAS0dk>

Summary:

* Created a multithreaded traffic-based car simulation system in Java using the Thread class and synchronization methods to determine the optimum settings for traffic lights.
* Simulated traffic flow using a directed graph with nodes representing different junctions/roads/carparks/etc.
* Implemented the producer consumer pattern with a custom buffer implementation.

# Extracurricular Activities

* **Member of BCS, The Chartered Institute of IT** (September 2021-2022)
* **Member of Games Development Society** (January 2018-2020) – Built new games independently and with groups in unity and the university’s proprietary game engine. Such as open world adventure game using unity’s terrain generation system.
* Participated in the **ROQ defective university challenge** (December 2019) to find defects in a website in a group in the given particular time. Aim of the challenge was to introduce into software testing and development
* Participated in **Game Jams**, like Ludam Dare 46 (April 2020) and UCLan Game Jams (January 2020)
* Volunteered in the Missionaries of Charity, Calcutta and many other local orphanages, special schools and senior citizen homes, Mumbai (2016)
* Selected to attend TATA Institute of Fundamental Research, workshop based in Mumbai, India (2015)