

# Sanjay Bhaambhu

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## Solo Projects

### CAPTAIN

Full Stack, Django, PostgreSQL, React, Next, React Native, Python, Tailwind  
An **open-source** learning app with **Django** backend, **NextJS** front-end for staff, and **React Native** app for learners. It's an intelligent tutoring system that can be used to teach any subject while adapting the course to the learner. The system is made in such a way that no piece of knowledge needs to repeat. [@bhaambhu.com/captain](https://bhaambhu.com/captain)

### Responsive Portfolio

React, Next, TypeScript, Tailwind

My personal website/portfolio project. It is a **Next JS** project that utilizes TypeScript, **Tailwind CSS** and static export. It has **responsive design**. Feel free to use it and make your own portfolio with it. [@bhaambhu.com](https://bhaambhu.com)

### SHADES: Combat

C#, Unity3D, Realtime Multiplayer, Enemy AI, InAppPurchases, Google Play Services

A 3D shooter game for the android platform – 1.5M players, 4.5/5 avg rating from 21K reviews. The biggest learning was **real-time concurrency control** – managing multiple players that are accessing and manipulating the same resources, in both **peer-to-peer** (LAN) and **client-server** (Online Multiplayer) environments. [@bhaambhu.com/shades](https://bhaambhu.com/shades)

### Unity Ludo Framework

Unity3D, C#

An **open-source Unity3D** project for creating any type of Ludo game. Currently setup as a mobile-based 2D Ludo game with **working AI**. Can be easily extended to a 3D game or a completely different Ludo game if needed. [@bhaambhu.com/unity-ludo](https://bhaambhu.com/unity-ludo)

### phpWikiCMS

FullStack, PHP, MySQL

An open-source framework that helps create a wiki style page management system, supports tree-style relationships and their management and viewing.  
[@bhaambhu.com/phpWikiCMS](https://bhaambhu.com/phpWikiCMS)

## Work Experience

### Web Developer @OOPS InfoSolutions

September 2016 – October 2018

- Designed responsive websites and worked in **PHP, MySQL, JavaScript, CSS, JQuery**, etc.
- Planning, prototyping and designing architectures of applications and illustrations for clients.
- Meeting clients, understanding business needs and conceptualizing solutions.

## Research Experience

### Senior Research Fellow @Chaudhary Devi Lal University

October 2018 – October 2022

- Taught Data Structures, Advanced Algorithms and Compiler Design classes to MTech and MCA.
- Published 4 Research Papers in Indexed Journals and Presented 3 Research Papers in International Conferences.
- Earned a PhD in Computer Science & Engineering for my work “On Development of a Framework for a Mobile Based Intelligent Tutoring System”

## About Me

Hard-working software engineer with a flair for creating elegant solutions in the least amount of time. Have developed several full-stack web and mobile apps with an unapologetically user-focused philosophy.

Looking forward to using my skills for an organization's growth, developing challenging products, and growing together.

## Skills

### Front End

ReactJS, NextJS, React Native, HTML, CSS, TailwindCSS, Material UI, Jekyll.

### Back End

Django, Rest APIs, NextJS (NodeJS), SQL, PostgreSQL, Supabase, Prisma, Heroku, Vercel, Railway.

### Programming Languages

Object Oriented Design, Python, JavaScript (ES6), TypeScript, C++, Java, PHP, SQL, JSON, XML.

### Tools & Platforms

Git, Docker, Unity3D, Android Studio, Adobe Creative Suite, Figma, Content Management Systems (CMS) like WordPress, Joomla.

## Education

Qualified GATE, UGC NET, JRF, JEST, HTET, 6 International Publications, 3 International Conferences – good at researching, teaching concepts to teams.

**2018 – 2022**

Doctor of Philosophy (PhD) under UGC Junior Research Fellowship - Computer Science and Engineering, CDLU

**2014 – 2017**

Masters in Computer Applications (MCA) Kurukshetra University – **70.71%**

**2011 – 2014**

B.Sc. Computer Science – **80.72%**

**School**

12<sup>th</sup> Science – CBSE (2011) – **81.6%**

10<sup>th</sup> – CBSE (2009) – **81.6%**