# Sanjay Bhaambhu

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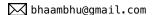
## Solo Projects

### CAPTAIN [bhaambhu.com/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.

### Responsive Portfolio [bhaambhu.com]
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.

### SHADES: Combat [bhaambhu.com/shades]
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.

### Unity Ludo Framework [bhaambhu.com/unity-ludo]
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.

### phpWikiCMS [bhaambhu.com/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.

## 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 at International Conferences.
▷ Earned a Ph.D. 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
React.JS, Redux, Next.JS, React Native, HTML5, CSS, TailwindCSS, Webpack, Material UI, Jekyll.

### Back End
Django, Rest APIs, NextJS (Node.JS), SQL, PostgreSQL, Supabase, Prisma, Heroku, Vercel, Railway.

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

### Tools & Platforms
Git, Linux, Docker, Unity3D, Android Studio, Adobe Apps, Figma, Content Management Systems, WordPress, Joomla, Bootstrap, Mac Systems.

## Education

Qualified GATE, UGC NET, JRF, JEST, HTET, 6 Int. Publications, 3 Int. Conferences – good at teaching concepts & researching.

**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**

12th Science – CBSE (2011) **– 81.6%**

10th – CBSE (2009) **– 81.6%**