

ANGELINA BACHHAN

B.Tech 4th Year | Student | Developer



Results-driven Computer Science and Engineering student with self-taught full-stack development skills and a passion for creating things that live on the internet, be it websites, applications, or anything in between.

CONTACT

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- angbach.dev
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SKILLS

Scripting/Coding

- Low-level programming using C
- Competitive Coding using C++
- AppDev using Java or Flutter
- WebDev using HTML-CSS-JS
- ML and Data Science using Python

Web Development Tools

- Have used JS Frameworks like Next.js(React) and Vue.js
- Skilled in CSS Frameworks like Tailwind CSS and Bootstrap
- Fluent in Backend Technologies like Node and Express
- Implemented Databases like Firestore, MongoDB, HyGraph CMS
- Hosted websites mostly in Netlify, Vercel, Digital Ocean

Data Science and ML

- Have used ML libraries like TensorFlow/Keras, Sci-kit Library
- Matplotlib, Numpy, Pandas are the go-to libraries for Data Analysis

Development Tools

- Comfortable with Version Control Tools like Git and Github
- Skilled in code editors like VS Code
- GCP is the go-to cloud provider
- Have used Linux OS like Ubuntu, Kali

Other Skills

- Have used Ethical Hacking Tools like Metasploit, Burpsuit, NMap
- Can speak English, Hindi, Odia
- App Dev Lead in KIIT KONNEXIONS

CERTIFICATIONS

- FreeCodeCamp Certifications
- HackerRank Certifications
- NPTL Ethical Hacking Certification

PROJECT WORKS

GAN Optimization using Duality Gap

- Implemented the concept of Duality Gap on various other optimisation algorithms of GANs to enhance performance.
- Achieved a faster rate of convergence for GAN components by trying to minimize a common objective function. Successfully eliminated oscillation and mitigated other anomalies during the training process.

GANs Optimisations Duality Gap Autograd Matplotlib PyTorch

Nearest Neighbor Transformation of Quantum Circuits in 2D Architecture

- Developed an algorithm to minimize the insertion of swap gates in quantum computing.
- Strategically placed the qubits on a grid to reduce the overall number of required swaps.
- Employed a Genetic Algorithm to identify the optimal path to minimise the total swaps.

Quantum Circuit Swap Gates Nearest Neighbor Genetic Algorithm

Various Deep Neural Networks on Computer Vision

- Successfully implemented an image captioning model leveraging the power of a CNN and a Transformer.
- Applied Convolution LSTM to develop a Next-Frame Prediction Model.
- Effectively implemented the concept of Style Transfer and auto-encoders.
- Contributed to projects focused on Super-Resolution and Low-Light Image Enhancement.

Deep Learning Computer Vision CNN LSTM Tensorflow

Various Web Projects

- An [E-Commerce Website](#) built using Next.js, Tailwind CSS, Mongo DB with integrated secure payment using Stripe API
- A [Social Media Website](#) built using Next.js, Tailwind CSS, Mongo DB with a custom server using Express environment to implement Socket.io.
- An [Algorithm Visualiser](#) built using Next.js and Tailwind CSS with state management using Redux.
- An [Online Classroom Management website](#) for Talent Sprint Classes, Berhampur using Vue.js and Firebase for hosting, auth and database
- Have made freelance websites for [KIIT KONNEXIONS](#) and [InU Cafe](#).

Full-Stack Development REST APIs System Design Web Apps

EDUCATION

- 2020
- De Paul School, Berhampur
- 2022
- FIITJEE Junior College, Vijayawada
- 2022-Present
- KIIT Deemed University

Class 10th Percentage - 92.4%

Class 12th Percentage - 95.5%

CGPA as in 6th Semester - 9.2