

Deepak Reddy Sannapareddy

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Education

Jain University, Faculty of Engineering and Technology

Bachelor of Technology

Major: Information Science and Engineering

First class with Distinction

2018-2022

GPA: 8.5/10

Bangalore, India

Work Experience

Qualcomm

August 2022 - April 2024

Associate Engineer

Hyderabad, India

- Responsible for the fastRPC (DSP services) module within the Qualcomm SOC to offload computation from the application processor.
- Drove execution of software for Qualcomm mobile SoCs from pre-silicon to commercialization.
- Interacted with cross functional technology teams to triage system level issues and propose solutions.
- Implemented advanced code optimization techniques that reduced application runtime by 35%, resulting in a 20% decrease in resource consumption and a 15% increase in overall system throughput.
- Provided support in debugging Linux device drivers (Kernel mode & User mode), and general CPU and DSP software debug support.

Qualcomm

February 2022 - August 2022

Engineer Intern

Hyderabad, India

- Developed a log parser that collects and parses all of the RCA logs with a particular set of parameters and then displays them in a readable format. This resulted in faster debugging.
- Ported the logger tool from legacy Python 2.7 to Python 3.6 which resulted in better compatibility with other services.

Projects

Fit Focus

September 2020 - October 2020

- A workout logging app with a map API integration for easy workout logging and keeping track of your growth. The website remembers the previous workouts resulting in easier tracking and compilation of data.

Supermarket Billing System

October 2020 - November 2020

- A fully functioning supermarket billing system with integrated user personas and ability to enter promo codes. This reduced wait times at the supermarket counter.

Funds First

October 2021 - February 2022

- A minimalist banking website with an interactive login and dashboard, aiming to make viewing, withdrawing and sending money easier.

CloudStrand

August 2022 - December 2022

- A cloud application which facilitates the secure sharing of personal files and other content through a cloud service. The application predominantly aims to preserve patient doctor confidentiality in hospitals.

Research Papers & Thesis

Encrypted Data Sharing in Cloud Computing

October 2022

- Identified flaws in the current cloud storage solutions.
- Implemented a cloud secure storage using CP-ABE and SHA algorithm with integration of a TA.
- Developed evaluations of the proposed system and calculated results.

A Comparative Analysis using various algorithm approaches to Enhance Heart Disease Prognosis

September 2023

- This research identified ways to predict heart disease.
- Trained a dataset using Naive Bayes, Adaboost and Stochastic Gradient Descent.
- Extracted Information and developed evaluations based on the research.

Leadership & Extracurriculars

Neoretina Eye Care Institute

September 2023 - March 2024

Social Media Management

- Developed and implemented a social media strategy to increase engagement and reach, resulting in a 30% increase in followers across all platforms.
- Created and curated content for Facebook and Instagram, highlighting patient stories and educational information on eye health.
- Collaborated with the marketing team to design promotional campaigns for new services and community outreach programs.
- Organized and promoted virtual and in-person events, increasing participation by 25% through targeted social media advertising.

S.K.R Government Degree College

June 2022 - August 2022

Teaching Assistant

- Managed administrative tasks, organized course materials, graded assignments and provided detailed student feedback, ensuring efficiency and accuracy.
- Taught “Information and Communication Technology”, including discussions on Government of India’s digital initiatives, giving students a comprehensive understanding of modern digital tools.
- Mentored students by adapting teaching methods to meet their individual needs, helping them overcome academic challenges.

Vijay Foundation Trust

July 2019 - August 2019

Volunteer

- Taught a basic computer course to the children of Vijay Trust.
- Created documentation and materials for the class.

Jain University Atom Club

May 2018 - June 2019

Project Coordinator

- Organized tech events for students to compete in around the college.
- Coordinated a three-day entrepreneurship awareness camp supported by the Government of India, with about 85 students participating.
- Organized a blood donation camp for “Indira Gandhi Institute of Child Health” in which about 250 students took part in the university.
- Coordinated an Arduino rover workshop as part of “IIAEM Space Week” in which about 65% of freshmen took part.

Skills & Interests

Technical: C, C++, SQL, JavaScript, HTML, DSP, Linux, CSS, Python, Illustrator, Photoshop, Figma.

Debugging Tools: Trace 32, ADB, Tombstone.

Interests: UI/UX, Game Programming, Photography, Website Design.