

# Sidharth Anand

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## EDUCATION

### University of Illinois at Urbana-Champaign

Bachelor of Science in Engineering, Computer Engineering, GPA: 3.51

Urbana-Champaign, IL

August 2022 – May 2025

- **Coursework:** Data Structures & Algorithms, Parallel Programming, Data Science Exploration, Computer Programming

## SKILLS

- **Programming Languages:** Python, Java, C++, C, SQL, Node.js, MongoDB, Sphinx, Matplotlib, CUDA, JavaScript
- **Machine Learning:** Keras, TensorFlow, Pytorch, Neural Networks, OpenCV, Pandas, Seaborn, Numpy, Scikit-learn
- **Full Stack and Platforms:** HTML, CSS, Bootstrap, Flask, Django, React, REST API, UI/UX, Linux, Windows
- **Collaborative Tools:** GitHub, Git, VS Code, Asana, MS Teams, Notion, Slack, MS Office Suite, Excel

## RELEVANT EXPERIENCE

**AI4Hotels** | Python, Keras, TensorFlow, Pandas, Matplotlib, React.js

San Francisco, CA

Machine Learning Engineer

June 2023 – Present

- Developed machine learning models to predict optimal room rates, increasing monthly profit by 25% per room for hotel
- Conducted revenue-centric room rate optimization, optimizing revenue and minimizing expenses per room
- Implemented predictive system in the hotel in collaboration with owners through informative front-end interface

**GiGLabs** | Python, React, JavaScript, HTML, CSS, SQL, Flask, Pandas

Champaign, IL

Full Stack Engineering Intern

May 2023 – Present

- Engineered a dynamic survey, efficient backend processing, real-time updates, versatile marketplace, and log in system
- Led end-to-end product lifecycle, with concept development, design, implementation, and deployment for 10,000+ users
- Utilized Flask for API that connects database and backend with React frontend optimizing user interaction and data-flow

**Butlr Technologies** | Python, Pygame, SQL, Numpy, MongoDB, Matplotlib

Burlingame, CA

Software Engineering Intern

June 2021 – August 2021

- Built data labeling tool that is being used in production to manually create labels to train and test AI/ML models
- Assembled, formatted, and screened 500 IoT sensors that were sent to 300+ customers
- Wrote script and unit tests for debugging and sensor to record data and recorded 10+ hours of data to train ML models

**Araali Networks** | Python, REST API, Flask, Sphinx, Linux, Technical Writing

Fremont, CA

Software Engineering Intern

June 2021 – August 2021

- Designed and Implemented Python APIs based on REST principles for Windows using FastAPI and Django REST
- Created Read the Docs documentation for platform functionality using Sphinx and performed quality testing
- Developed scripts to automate data logging tasks using Python, improving efficiency and reducing manual workload

**My Medical Clinic** | HTML, CSS, Node.js, JavaScript, Bootstrap

Maplewood, MN

Software Engineering Intern

June 2020 – August 2020

- Built a web based COVID-19 screen application that is being used by a chain of 3 clinics and hosted it on their website
- Integrated application into clinic sign-in and registration process using a QR Code

## PROJECTS AND RESEARCH HIGHLIGHTS

**Machine Learning & Full Stack Projects** | OpenCV, Tensorflow, Keras, Python, React

August 2020 – Present

- Created RSI index trading optimization using genetic algorithms, ML app for crop insights/suggestions for sustainability
- Built a HOA application to streamline reporting and resolution processes and issues for over 1000 homes
- Built mental health chatbot that produces human-like responses using Transformers and LSTMs for online platform
- Utilized OpenCV and Viola-Jones object detection framework to implement facial identification and recognition

**Wildfire Modeling Research** | Gradient Boosting Algorithms, Python, Machine Learning

August 2020 – May 2022

- Performed research on how different machine learning algorithms can be used to predict the area burned by wildfires
- Trained, analyzed, and compared effectiveness of XGBoost, CatBoost, and LightGBM gradient boosting models

## EXTRACURRICULAR ACTIVITIES AND LEADERSHIP

**CUBE Consulting** | Python, TensorFlow, React, Grafana, Asana, Slack

Urbana-Champaign, IL

Software Project Manager

September 2022 – Present

- Guiding a team in developing machine learning algorithms into app, optimizing electricity storage for 20% cost savings
- Led by example, mentored consultants, organized meetings, and fostered collaboration, driving successful project results
- Successfully promoted from Consultant to Senior Consultant, and currently serving as a Software Project Manager

**University of Illinois at Urbana Champaign**

Urbana-Champaign, IL

STAT 207 (Data Science Exploration) Course Assistant

January 2023 – June 2023

- Led lab sections, teaching data visualization and ML models like linear/logistic regression, SVMs, and Random Forest
- Organized study groups and interactive workshops to foster peer collaboration and enhance understanding of concepts
- Graded and provided constructive feedback to students in office hours, helping them overcome obstacles in coursework