Siddharth Batra

Portfolio: darksun27.com

Mobile: +1-352-888-3012Github: github.com/darksun27

EDUCATION

University of Florida

Florida, United States August 2021 - Present

Email: batra.s@ufl.edu

Master of Science - Computer Science GPA: 3.89/4.0

Courses: Advanced Data Structures, Human Computer Interaction, Software Engineering, Algorithms

Jaypee Institute of Information Technology

Noida, India

Bachelor of Technology - Computer Science and Engineering GPA: 8.3/10.0

July 2017 - June 2021

Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases University of Florida: Spring 2021 Exchange Program Student. GPA: 3.83/4.0

SKILLS SUMMARY

• Languages: Python, C/C++, JavaScript/NodeJS, SQL, Bash, Java(Familiar), Matlab(Familiar) Flask, React, Angular, ExpressJS, ElectronJS, SciKit, Tensorflow, Keras, Pandas, OpenCV Frameworks:

Tools & Platforms: GIT, GitHub, MySQL, Linux, Web, Arduino, Raspberry, LaTex

• Soft Skills: Leadership, Time Management, Problem Solving, Critical Thinking, Quick Learner

EXPERIENCE

Oppia Remote

Team Member & Co-lead Angular Migration Team (Open Source)(Part-Time)

Oct 2020 - Oct 2021

- Created simplified approaches to migrate complex coding patterns from AngularJS to Angular
- Successfully merged PRs that clears blockage for other teams.
- o Member of onboarding team, helped new comers to be a part of the community.

BITS Pilani Remote

Research Internship

Jun 2020 - August 2020

- Project A blockchain and deep neural networks-based secure framework for enhanced crop protection.: Developed a blockchain based crowd-sourcing framework for farmers to share information about crop protection and different crop diseases. Developed machine learning model to identify crop diseases using an image.
- Article: Published a research paper in Ad-Hoc Networks Journal.
- o Impact: The results achieved in the research showed promising results for the reward based system and ML model achieved an accuracy of 95%.

CampK-12

Gurgaon, India

Software Engineer Internship

Jun 2019 - August 2019

- o Project Reward Based Learning Game for Students: Developed a reward based game for K-12 students that teaches programming and math to the students. Developed an algorithm that generates random programming and math questions based on rules provided by the problem setter.
- Additional Duties: Taught 50+ K-12 students web development and python programming.
- Impact: 50+ students switched from mobile games to learning game in their free time.

- Nudget (Chrome Extension, Web Development, User Research, User Experience): Conducted a research study and developed a nudging based chrome extension to demotivate user from spending on e-commerce websites needlessly. Received promising results with 90%+ subjects staying in their budget.
- Diabetic Retinopathy Detection (Machine Learning, Computer Vision, Full-Stack Development): AI model and mobile application to efficiently detect diabetic retinopathy using retinal images. Tech: React Native, Python.
- Epilepsy Detection using EEG Signals (Machine Learning, Mobile Application Development): Developed mobile application to detect epilepsy in real-time and send push notifications to emergency contact specified by the user. Tech: React, Python
- JIIT Social Backend: JIIT Companion Social Media (Web Development, Machine Learning): Developed the backend of JIIT Social - the social media application for JIIT student. Used by 1000+ students in campus. Tech: NodeJS, MongoDB
- Chrome Extension for Dyslexic People(Web Development, Chrome Extension): Developed an accessibility tool for dsylexic people on internet for changing

Publications

- Research Paper (Machine Learning, Blockchain): Hassija, V., Batra, S., Chamola, V., Anand, T., Goyal, P., Goyal, N., & Guizani, M. (2021). A blockchain and deep neural networks-based secure framework for enhanced crop protection. Ad Hoc Networks, 119, 102537.
- Book Chapter: A Deep Neural Networks-Based Cost-Effective Framework for Diabetic Retinopathy Detection: Data Science for Effective Healthcare Systems CRC Press, Taylor & Francis Group, 9781032105680 (p-ISBN), 9781003215981 (e-ISBN)

Leadership Experience

Team Lead at Open Source Developers Community

Noida, India