

Subhendu Karmakar.

Portfolio: [subhendu.vercel.app](#)

Github: [github.com/subhenduKarma001](#)

Linkedin: [linkedin.com/in/subhendu-karmakar](#)

Email: subhendukarmakar61@gmail.com

Mobile: +91-891-7657-416

EDUCATION

- Indira Gandhi Institute of Technology, Sarang** Odisha, India
Bachelor's Degree - Computer Science Engineering; GPA: 9.37 July 2019 - June 2023
Courses: Operating Systems, Data Structures, Design and Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Data Science, Computer Networking, Databases Management System, Software Development

SKILLS SUMMARY

- Languages:** C/C++, JavaScript, Ethereum, Solidity, Bash/Zsh, Powershell
- Frameworks/Libraries:** Bootstrap, ThreeJS, ReactJS, NodeJS, Express, MERN
- Databases:** MySQL, MongoDB, Firebase
- Tools:** GIT, npm/yarn, Chrome Dev Tools, VScode, Vim
- Platforms:** Linux, Web, Windows, MacOS
- Soft Skills:** Leadership, Event Management, Writing, Time Management

EXPERIENCE

- Google Summer of Code - Submittity** Remote
Student Developer (Full-time) May 2019 - Sep 2019
 - Discussion Forum Upgrades:** Refactor forum for performance to handle large databases.
 - REST API for Discussion Forum:** Symphony & Twig based Forum parts converted to API-first interface.
 - Ratchet PHP WebSocket:** Implemented a WebSocket for low-latency real time exchange of posts and thread updates.
- DataCamp Inc.** Remote
Instructor (Part-time, Contractual) Dec 2018 - Present
 - Project Course - Find Movie Similarity from Plot Summaries:** Created project based course using Unsupervised learning and natural language processing.
 - Tutorial - Introduction to Reinforcement Learning:** Created tutorial for Q-learning RL algorithm and concepts.
 - Impact:** Course has been taken by 250+ students so far with 4.65 average rating.

PROJECTS

- Vison - multimedia search engine (NLP, Search Engine, Web Crawlers, Multimedia Processing):** (Work in progress) Research oriented, open source, search engine for bringing reverse multimedia search to small & mid scale enterprises. Tech: Python, NodeJS, Intel OpenVino Toolkit, Selenium, TensorFlow (October '18)
- Reinforcement Learning based Traffic Control System (Reinforcement Learning, Computer Vision):** AI model to resolve city traffic around 50% faster. Tech: Python, Alibaba Cloud, Raspberry Pi, Arduino, SUMO & OpenCV. (August '18)
- Panorama from Satellite Imagery using Distributed Computing (Distributed Computing, Image Processing):** Images clicked using drones, provided by ISRO were stitched together using distributed public compute nodes, effectively bringing down processing time exponentially. Tech: PHP, C++, Java, Python (March '18)
- Drag-n-drop machine learning learning environment (Web Development, Machine Learning):** Scratch like tool for implementing machine learning pipelines along with built in tutorial for each concept. Tech: Python, JavaScript (September '18)
- Search Engine and Social Network(Web Development, Web Crawler, Search):** Created from scratch a social network and a search engine based on the idea of integrating Facebook and Google. The launched website was among top 1000 websites in India during 2012-2013. Tech: PHP, MySQL, HTML, CSS, WebSockets, JavaScript, RSS, XML (May '12)

ACHIEVEMENTS

- Awarded title of Intel Software Innovator - May, 2019
- Second Runner's Up at TCS EngiNx Engineering Project Innovation Content - September, 2018
- Runner's Up at Facebook Developers Circle Hackathon - August, 2017

VOLUNTEER EXPERIENCE

- Community Lead at Developer Student Clubs NSEC** Kolkata, India
Conducted online and offline technical & soft-skills training impacting over 3000 students. Jan 2019 - Present
- Event Organizer at Google Developers Group Kolkata** Kolkata, India
Organized events, conducted workshops and delivered workshops reaching over 7000 developers. Jan 2018 - Present