Siddhant Rao

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Interests and Skills

Areas of Interest	Systems, Cloud Computing, Algorithms and Data-Structures, Computer Graphics, Programming Languages
Languages	C/C++, Python, Rust, Go, Javascript, MySQL, Java, Haskell
Technologies	Open-Source, Docker, Linux, Django, HTML5, CSS3, Bootstrap4
Tools	Git, GitHub, Amazon Web Services, Emacs, Google Cloud Console, Visual Studio Code
Soft Skills	Analytical and Curious, Logical, Community Oriented

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Projects

gandiva query caching.
Improving query caching in Gandiva, an execution kernel used by Apache Arrow
- Developing strategies for efficient query caching
- Implementing parameterization of literals at LLVM IR code level
- Measuring and plotting the CPU time and improvement metrics

flashy.
A flashcard app built using Django
- Hosting Applications on Heroku (flashy-cards-app.herokuapp.com)
- Developing APIs for the backend
- Writing Database models and queries to retrieve data

chippy.
A chip8 emulator written in Rust and compiled to WebAssembly
- Developing and Emulating Chip8 instructions compatible with rust
- Passing shared memory and providing JavaScript bindings to rust functions using WebAssembly

sadenstein.
An old school FPS game in C++ inspired by Wolfenstein 3D
- Modeled Object Oriented Concepts
- Ran Cmake to build multiple files

hydr0.
An Open Source Arduino project for Monitoring your Hydroponic kit
- Designed the circuit using fritzing diagram
- Documented different parts and components of the kit

Experience

Lead of Operations, *PES Open Source Club*.

Part of the core team and lead the operations and working of the newly formed club
- Scheduled a 2 day event for Hacktoberfest with a Day of Talks and Hack Day attended by esteemed guests from the Open Source Scene
- Conducted many online workshops for University Students
- Regulated Community involvement in the communication channels

Education

2018–2022 **B. Tech.**, *PES University*, Bangalore, *9.09 CGPA*.
- Completed a course on Cloud Computing and Big Data along with lab based work in AWS (EC2, EBS, RDS, lambdas, cloudwatch)
- Completed a course on Artificial Intelligence in PESU I/O taught by seniors
- Volunteered for The Amateur Scientist fest '18
- Volunteered for AathmaTrisha fest '19

2016–2018 **High School**, *Delhi Public School*, Bangalore North.
- 12th Grade: 96.6%
- 10th Grade: 10 CGPA
- Volunteered for Impressions fest

Awards & Certificates

- Two time recipient of Prof MRD Scholarship for securing top 20% grade at University
- Received the Prof. CNR Rao Scholarship for securing 9.46 CGPA in the 1st semester at University
- Google Cloud Certification in:
  - NCAA® March Madness®: Bracketology with Google Cloud
  - Google Developer Essentials
  - GCP Essentials
  - OK Google: Build Interactive Apps with Google Assistant
- Secured the General Proficiency and English Proficiency Award in 12th Grade

Open Source Contributions

- www.github.com/CatEars/goto
- www.github.com/domeengine/dome
- www.github.com/pesos/grofer
- www.github.com/pesos/rshark