

SHIVATEJ SOMA

Undergraduate Mechanical Engineer



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PROFILE

An independent and self-motivated Undergraduate Mechanical student with multi-disciplinary skills, Highly Interested in Automation/Artificial intelligence, and how it shapes Industry 4.0 in changing working conditions globally. Also, a confident presenter with Design related skills which entices the audience, with unique perspectives and presentations.

EDUCATION

2017 - 2021	Bachelor of technology (Mechanical) Vellore Institute of technology	Current CGPA - 8.67/10
2017	Intermediate (Maths, physics and chemistry) Leela Junior College	Final percentage - 94.8%
2015	Central Board of Secondary Education St. Peters central public school	Final GPA - 10/10

SKILLS

Tools and Technology:	<u>CAD&Analysis</u> Solidworks Sketchup Comsol Ansys	<u>Web</u> HTML CSS Sass Jquery Bootstrap Django Nodejs	<u>Design</u> Illustrator Indesign Photoshop	<u>Programming</u> Python Java Javascript GoLang Dart	<u>other</u> IBM Watson Electron js
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Industry Knowledge: Machine Learning
Project Planning

Other: Information Design
Creative Visualization

CERTIFICATIONS

Six Sigma Green Belt	<i>World Class Manufacturing</i>	Matlab On-ramp	<i>Mathworks</i>
Information Design and Visualization	<i>Gymnasium</i>	Simulink On-ramp	<i>Mathworks</i>
UX fundamentals	<i>Gymnasium</i>	Social Psychology (with Honours)	<i>Coursera</i>
Python for Data-science	<i>IBM Cognitive Class</i>	Initiating and planning projects	<i>Coursera</i>
Machine Learning with Python	<i>IBM Cognitive Class</i>	The Art of Negotiation	<i>Coursera</i>
Introduction to Flutter	<i>London App Brewery</i>	The Language of Design	<i>Coursera</i>
Elements of AI	<i>Helsinki University</i>	Google's Go (golang)	<i>Udemy</i>

* All the certificates correspond with most of the skills in skill section
Credentials for above certificates can be found in linkedin profile

PROJECTS

Autonomous Modular braking System
Finding Torque required to steer a Tuk-Tuk
Detachable Power bank Design
Thermal Analysis of Pin fins in Ansys
Laser Texturing on Tool surface to improve performance
Timetable Sorter Using Django and PostgreSQL
Manabadi website task automation to find rank(web Scraping)
"Quick Gmail" web extension

EXPERIENCE

- 06/2020 - 10/2020 **Organiser, graVITas'20**
- graVITas, the Techno-Management Extravaganza organised by VIT, Vellore is an internationally acclaimed event.
 - India's biggest virtual tech-fest
 - 47 technical, 41 workshops and 18 non-technical events
 - 11000+ participants from 26 countries
- 08/2019 - present **Mechanical Lead, Centre of Excellence for Autonomous Vehicle Research**
- Recognized as one of the founding Member
 - Autonomous Vehicles and EV Research in VIT in collaboration with Nvidia and SUNY Binghamton.
 - Assigned Budget of Rs 5,00,00,000 (~900,000 CAD)
- 06/2019 -08/2019 **Internship Trainee, Smartbridge Educational Services Private Limited**
- Undergone Rigorous training in field of Machine Learning
 - Bagged 1st place in *Python* Quiz among 70 others
 - Did a Project followed by Hackathon
- 12/2017 - 04/2019 **Core Committee Member, The Institution of Engineering and technology (IET)**
- UK based multidisciplinary professional engineering institution.
 - IET On Campus is a community that helps like-minded students get ahead and get noticed.
 - Organised Great events such as first south India's MLH hackathon and novel Technical MUN.

ACHIEVEMENTS/ EXTRACURRICULARS

- Organiser, gravitas'20 (largest virtual tech-fest of 2020)
- Secured 1st in Chemathon 3.0 (Design of a specific water treatment plant)
- Six Sigma Green Belt Certified by World Class manufacturing
- Manager, Sangamam 2020 (Riviera, one of the top 10 College Cultural fest, India)
- Media Head/Manager, Hackoff 2020 (One of APAC's first MLH hackathons)
- Manager, Technical United Conference 2019 (IET-VIT)
- Designed T-shirt for ERIDE(Empowering Rural India with Digital Education) NGO.
- Manager, Hackoff 2019 (first MLH hackathon fall 2019)
- Coordinator, Technical United Conference 2018 (IET-VIT)
- Served in National Cadet Corps (NCC), Best Junior Cadet Recommendation letter from Troop Commander, 2015
- Youngest to compete in Dr.APJ Abdul Kalam Regional Science-fair (Space Domain, 2012)
- Awarded 6 Merit Certificates (in 12 years of schooling for good behaviour/character traits)

ABOUT MY TEACHING EXPERIENCE

- I have always been passionate about teaching. Even during my school age, I have actively taken part in programs/activities that involve teaching lower grade students in various topics. Currently, as an engineering student I haven't gotten enough time or the possibility to take part in any form of teaching, but Covid introduced many to the world of online classes. While the efficiency is debatable, I believe with right tools and techniques online teaching can be more productive than traditional schooling; I have been teaching a group of students programming for the past couple of months for free and learned a lot from developing proper curriculum to techniques that let students engage more in classes. While searching for part-time jobs online to save money for higher education, I have come across cuemath in LinkedIn and thought to give a go; I believe I can devote my time and utmost focus to teaching students something that I love.