


# Anant SHUKLA

## Software Developer | Cloud Specialist | IoT | Data Science | Blockchain

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A highly motivated and dynamic software engineer, looking to upgrade my skills with a Masters Degree. With my strong technical qualifications, problem-solving skills, management and leadership experience, I aim to solve significant world problems.

## EDUCATION AND ACADEMICS

2020	Bachelor of Technology - Information Technology : <b>Percentage : 81.3%</b> SRM Institute of Science and Technology, Chennai
Oct 2021	IELTS Academic Test. <b>Overall Band Score : 8</b> L : 8 R : 8.5 W : 7.5 S : 7 -  e-TRF
2016	Navy Children School, New Delhi. <b>Percentage : 74.6%</b>
2014	Air Force School, Jamnagar. <b>CGPA : 8.4</b>

## COMPETENCIES

<b>Programming Languages</b>	JavaScript, Python, Go, SQL, C#, C++, Solidity, Java
<b>Tools</b>	Jenkins, Microsoft Azure, AWS, DataBricks, git, JIRA, SQL Server, PostgreSQL, Redis, MongoDB, Cassandra, Kubernetes, MATLAB
<b>Frameworks</b>	NodeJS, Express, ReactJS, PySpark, Ethereum, .NET Core
<b>Electives</b>	Cloud Computing, Cryptography, Data Science and Big Data, Software Testing, Engineering Economics And Financial Management, Visualization Techniques

## WORK EXPERIENCES

<b>Current</b> August 2020	<b>Systems Engineer, TATA CONSULTANCY SERVICES, Bengaluru, India</b> <ul style="list-style-type: none"><li>Internet of Things consultant for projects in the Life Science industry. Hold various roles such as Sub-systems Lead, Site Reliability Engineer and Lead DevOps Engineer.</li><li>Develop Cloud and Backend Services using NodeJS to create Web APIs, Python to create DataBricks Services for IoT Data Ingestion and Processing and Jenkins to develop DevOps pipelines to implementing CI/CD.</li><li>Utilize various PaaS and IaaS services and develop solutions to facilitate end-to-end IoT data processing by creating Data Pipelines using messaging brokers, and cloud services like IoT Hub, Event Hub, DataBricks and deploy to using various Cloud Services.</li><li>Mentor junior engineers as an additional responsibility.</li></ul> <div>Backend Developer Site Reliability Engineer IoT Cloud DevOps Azure Data Science Agile</div>
<b>July 2020</b> <b>December 2019</b>	<b>Co-Founder, Software Developer Lead, ZALT TECHNOLOGIES LLP, Chennai, India</b> <ul style="list-style-type: none"><li>ZALT aims to leverage technology to build an innovative digital infrastructure and integrating it with drones to develop an end-to-end ecosystem for optimizing the e-commerce supply chain.</li><li>Developed a supply chain routing software that included a Web UI built on ReactJS, a Mobile app built using React Native and Backend built on Flask which is used to optimize and plan the route of a fleet of delivery riders. This software was acquired by our funding company Bylane Logistic.</li></ul> <div>Entrepreneur App Developer Full-Stack Developer Supply Chain Path Planning and Optimization</div>
<b>June 2020</b> <b>August 2016</b>	<b>Team Leader   Software Engineer , SRM UNMANNED AERIAL VEHICLE (SRM UAV), Chennai, India</b> <ul style="list-style-type: none"><li>SRM UAV is an undergraduate Student Organization specializing in Unmanned Aerial Systems and their applications. The team conducts Research &amp; Development on UAV's for competitions like AUVSI SUAS (USA) and Medical Express (Australia).</li><li>Won the Best in Technical Design Award in AUVSI SUAS 2019 held in Maryland, USA.</li><li>Responsible for developing solutions, effectively managing the team and its resources and be a point of contact with University officials and sponsors.</li><li>Developed the Antenna Tracker and Telemetry Control System, responsible for collecting telemetry data from the UAV and sending it to the Ground Control Station, where this data would be shown on the path planner User Interface.</li></ul> <div>UAV Embedded Systems Research Aerial Robotics AUVSI-SUAS Medical Express</div>

## PROJECTS

- **Routing Software**  
Developed a routing software for ZALT Technologies LLP that includes a Web UI and a Mobile App which prepares optimized routes for a fleet of delivery riders dynamically.
- **Academic Credential Verification Using Blockchain**  
Developed a Decentralized application on Ethereum Blockchain which stores the student transcript of all the alumni who have graduated from SRM IST as part of capstone project.
- **Attendance and Inventory Management System for TATA**  
Developed an Employee Attendance system, and an Inventory Management System during internship at PLS Automobile, Tata Motors using Raspberry Pi, RFID sensors and SQLite db.
- **Mission Planner : SRM UAV**  
Developed distributed systems for collection of mission data and telemetry. This was coupled with a web interface which was used for mission and task planning.
- **Autonomous Drive of an Unmanned Ground Vehicle**  
Developed the control systems of an Autonomous UGV. Completed Lane Detection using image processing on a stereo vision rig and a steering control based on a PID Controller.

## HONORS AND ACHIEVEMENTS

- **Indian Olympic Association (2021)** : Level 3 Yachting Certification for Wind Sail Boats
- **AUVSI : Student Unmanned Aerial System (2019)** : Best in Technical Design Award in AUVSI SUAS 2019. The competition hosted 89 International University Student Teams in Patuxent River Naval Airbase, Maryland, USA.
- **SRM Research Day (2019)** : Silver medal for paper presented on 'Swarm Optimization of Multiple UAV's for Resource Allocation in Humanitarian Aid and Disaster Relief Operations'
- **SRM Research Day (2019)** : Silver medal for paper presented on 'Design and Architecture of an Amphibious Reconnaissance Vehicle capable of Aerial and Underwater Operations'.
- **DRDO Robotics and Unmanned Systems (2018)** : Won 5th prize and most innovative solution award for developing an Amphibious Reconnaissance Vehicle. Project funded by DRDO, SRMIST
- **Medical Express Outback Challenge (2018)** : Selected amongst the top 20 out of 564 teams in Medical Express UAV Challenge held in Australia.
- **Techno-Science Fair (2017)** : 1st prize in Techno-Science Fair held at SRM Institute of Science and Technology for project titled 'Wireless Home Automation using IoT'

## LANGUAGES KNOWN

English	●	●	●	●	●
Hindi	●	●	●	●	●
Korean	●	●	●	○	○

## VOLUNTEER WORK

- Volunteered at Nai Umeed, an NGO that supports children with special needs (2017-19)
- Part of National Service Scheme (NSS), a youth initiative for social work (2016-17)
- Volunteered at Sankalp - School for the differently-abled (2013-15)

## RESEARCH PUBLICATIONS AND CONFERENCES

- Design and Architecture of an Amphibious Reconnaissance Vehicle capable of Aerial and Underwater Operations  
Jan 2019 | Silver Medal, SRM Research Day  
[Link](#)
- Academic Credential Verification Technique Using Blockchain | International Journal of Advanced Science and Technology  
May 2020 | International Journal of Advanced Science and Technology  
[Link](#)
- Swarm Optimization of Multiple UAV's for Resource Allocation in Humanitarian Aid and Disaster Relief Operations  
April 2021 | International Conference on Communication, Circuits, and Systems  
[Link](#)

## CERTIFICATIONS

- Azure Certified DevOps Expert | June 2021  
[Certificate-AZ 400](#)
- Azure Cloud Developer Associate | May 2021  
[Certificate-AZ 204](#)
- Azure Certified IoT Specialist | January 2021  
[Certificate-AZ 220](#)
- Blockchain Specialization | University at Buffalo | July 2020  
[Certificate - Blockchain](#)
- Google Cloud Platform Fundamentals | May 2020  
[Certificate - Google Cloud](#)
- Agile for Practitioners | December 2020  
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