

EDUCATION

- **SRM University** Chennai, India
Bachelor of Technology in Software Engineering; GPA: 8.517/10 *July, 2013 – July, 2017*
 - **Courses Completed:** Object Oriented Programming, Programming in Java, Python, Networks, Genetic Algorithms, Linear Algebra, Discrete Mathematics, Software Architecture, Data Structures and Algorithms
 - **Graduated First Class With Distinction:** Ranked in the top 5% of the class of 2013-2017

WORK EXPERIENCE

- **IIT Kharagpur** Kharagpur, India
Project Assistant *August, 2017 - Present*
 - **Application Development:** Working on creating a full stack web application and an android app for digitizing the entire law enforcement process under the Ministry of Human Resources and Development, India.
 - **Machine Learning:** Using Linear Regression to develop a model which can use data from law enforcement to predict accident prone hot-spots.
- **IBM** Kolkata, India
Industrial Trainee *June, 2016 - July, 2016*
 - **Training:** Trained in Industrial standards on J2EE paradigms and servlet development using Eclipse and IBM DB2.
 - **Project:** Developed a Java based Smart Storage Management System and then deployed it on IBM Blue Mix.
- **Hewlett Packard** Kolkata, India
Industrial Trainee *June 2015 - July, 2015*
 - **Training:** Received professional training about Linux System Administration and Bash Scripting.
 - **Project:** Created a GUI based Hospital application using Shell Scripting on Cent OS.
- **SAP Labs** Bangalore, India
Big Data Developer Intern *June, 2014 - July, 2014*
 - **Database Development:** Developed the Python architecture for the backend of a client side application using Python's Django framework.
 - **SAP HANA Administration:** Managed a Big Data based Database Cluster in SAP HANA.

ACADEMIC PROJECTS

- **Neonatal Mortality Prediction Model:** Used Support Vector Machine on a SRM General Hospital data dump to set up a localized model for prediction of Neonatal Mortality.
- **Resource Sharing Portal:** Developing a dynamic web application in MEAN Stack which was hosted on SRM University intranet, allowing students to share academic resources.
- **Improved Service Oriented Architecture Paradigms using smart evaluation:** Developed an improved SOA development paradigm in AGILE using smart evaluation of non functional unit metrics. Research documentation under review for SDN, 2018.
- **Payload Data Compression Engine:** Used Huffman's Compression Algorithm to develop a Matlab based data compression system for increasing payload data transference efficiency in SRM Nano Satellite Research.

PUBLICATIONS

- **Evaluation of CloudRS algorithm with De novo Assemblers**, Ramraj S, Soumyajyoti B, Karthikeyan T, Gohula K, *Indian Journal of Science and Technology*, Vol 9(45), Article: 92896, December, 2016
- **Procedural Ailment Detection System - A Web Based Healthcare Approach**, Soumyajyoti Bhattacharya, Rohit Raj, *IEEE International Conference On Smart Technology for Smart Nation*, August, 2017, pp. 227-231
- **Detection and Localization of IDS Based Spoofing Attackers in Wireless Sensor Networks**, Ankit Singh, Pallav Sinha, Soumyajyoti Bhattacharya, *International Journal of Computer*, Vol 27(1), October, 2017, pp. 103-111

- **Analysis of Human Development Indexes using Global Indicator Data**, Soumyajyoti Bhattacharya, Krishna Dayanidhi, *13th International Computer Engineering Conference, Egypt*, December, 2017, Accepted for publication post presentation

COMMUNITY WORK

- **Google Students Club** Chennai, India
Tech Lead *August, 2013 - May, 2017*
 - **Responsibility:** A founding member of the club, built to act as a liaison between Google and university students. Led a team of 30 members.
 - **Workshops:** Conducted around 20 workshops over 4 years on different tech topics including Angular JS, Node.JS, Git, Cloud Computing and Android Development
 - **Hangouts fest:** Organized India's largest student run zero budget technical fest. Hosted over 3000 participants. Its success got featured on Google community magazine. Improved female participation by over 50% from other university STEM events.
- **Lonepack** Chennai, India
Outreach and Technical Team Member *June, 2016 - Present*
 - **Website Design:** The organization is a non-profit dealing with raising awareness about mental health issues. Developed the website presence for the NGO, and its campaigns. Integrated search engine optimization into it.
 - **Campaign Initiatives:** Worked on developing an Anti Blue Whale Challenge initiative. Developed written pieces and conversational literature for the NGO's every major campaign.
 - **Rudimentary Chatbot:** Working on developing a smart chatbot using Keras to function as a mental health companion and counseling reporter for young adults.
- **Aurora Charitable Society** Chennai, India
Communications Volunteer *February, 2016 - March, 2017*
 - **Awareness and Fundraising:** Involved in organizing awareness campaigns and fundraisers for the UN High Commissioner for Refugees. Raised around INR 5 lakhs.

CO-CURRICULAR ACHIEVEMENTS

- **ACM ICPC Regionals:** Received Honorable Mention award for achieving second place amongst 450 teams. Solved 5 competitive coding questions within 3.5 hours.
- **TCS IT Wiz:** Won the regionals, and came second in the nationals of a technical quiz competition organized by TCS.
- **Infosys Software Testing Workshop:** Won "Best Software Tester" award in the workshop. Got sponsored to study a Six-Sigma certification course.

EXTRA-CURRICULAR ACHIEVEMENTS

- **Public Speaking:** Participated in various national and international level debates and Model UNs. Total number of conferences attended are 40, with a win rate of 80%. Also invited to judge a dozen similar competitions.
- **SRM Model UN:** Member of the Secretariat as under Secretary General. Headed a team of 20 members and 300 volunteers to organize one of the largest Model UN conferences in the Indian subcontinent to collaborate with UNIC, receiving around 1500 participants from India and abroad.
- **Dramatics:** Acted in various national level theatrical productions, including the stage adaptation of the Broadway Lion King in India.

PROGRAMMING SKILLS AND CERTIFICATIONS

- **Languages:** Java, R, C++, C sharp, HTML, CSS, Javascript, Python, .NET, XML, SQL, L^AT_EX, PHP, Kotlin, Octave, Matlab.
- **Technologies:** AWS, Angular, Node, MongoDB, Tensorflow, Theano, Keras, Data Science Frameworks, IntelliJ, Apache Spark, Axure RB, Selenium, Git.
- **Online Course Certifications:** Machine Learning - Andrew Ng, Neural Networks - Geoffrey Hinton, Data Science with Python Track - Datacamp, Artificial Intelligence A-Z - Udemy, Deep Learning Foundations - Google and Udacity.

LANGUAGES

English, Hindi, Bengali, French(Intermediate), Japanese(Elementary), Esperanto(Elementary).