Shubham Singh
7575 FrankFord Rd, Dallas TX 75252, Apt 2213 (+1) 469-927-2616, shubham.ac.singh@gmail.com

EDUCATION

University of Texas at Dallas   Dallas (USA)
Masters of Science / Computer Science   *Aug 2021 - July 2023*

Institute of Engineering and Technology (Devi Ahilya Vishwavidyalaya)   Indore (India)
Bachelor of Engineering / Electronics & Telecommunication (80%)   *Aug 2015 - May 2019*

PROFESSIONAL/INTERNSHIP EXPERIENCE

Accenture   Pune (India)
Software Developer Associate   *July 2019 – June 2021*

- Developed Trade Securities module of the project for an online portal for the bank.
- Develop the client's user story, maintaining and coordinating the external systems and hosts implemented in the module. Worked on Java, Springboot, React.js and other full-stack technologies.
- Migrated codebase and database to the cloud and integrating the infrastructure with other 3rd party services without affecting business.
- Develop scripts using HiveQL for the analysis of incoming web traffic. Used apache spark to analyze the same

CRISP   Bhopal (India)
Data Analyst Intern   *May 2018 – June 2018*

- Successfully completed the training program on Data Analytics with R at Centre for Research and Industrial Staff Performance
- Had the opportunity to work on government project which included making a chat-bot.

RESEARCH

- Published a research paper in ICACAT (ISSN-2394-2231) on "Randomness Test for Wireless Physical Layer Key Generation" in– December 2018.
  Available at: https://ieeexplore.ieee.org/abstract/document/8933725
- Published a research paper in JTEC "Low Complexity Security Algorithm for CPS / IoT Networks" in Vol. 11, No. 2, April-June 2019. [ISSN: 2180-1843]
  Available at: https://journal.utem.edu.my/index.php/jtec/article/view/4928

ACADEMIC PROJECTS

Title: "Java based Healthcare App" Team Size: 3
• **Description**: Made a java based healthcare app that helped the elderly. The app consisted of some basic features for people like medicine reminders, distance traveled, an SOS widget that helped people send a message with the person's exact location. The app facilitated the nearby users to donate blood in case of emergency by sending them push-notifications and sending them the hospital's site if the user accepts to donate blood.
• **Roles and Responsibilities:** Backend Developer, Database manager
• **Tools and Technology Used**: Android, Java, MySQL

Title: "RF Based Home Automation with optimization using Whale optimization algorithm" (MINOR) Team Size: 3
• **Description**: Made a home automation system using radiofrequency controlled remote using multiple RF receivers and transmitters and optimizing their placement using the whale optimization algorithm.
• **Roles and Responsibilities:** MATLAB/Python Developer
• **Tools and Technology Used**: MATLAB, Python, Raspberry pi

Title: "Network Security: AES and hash key Generation and Randomness Testing" (MAJOR) Team Size: 3
• **Description**: Trying to develop much faster, efficient and random key generator algorithm for low noise/power for using in CPS/IoT Networks by simulating in MATLAB and then testing its randomness using NIST-STS.
• **Roles and Responsibilities:** MATLAB/Python Developer
• **Tools and Technology Used**: MATLAB, Python, NIST-STS

COMPUTING SKILLS

- **Programming Languages:** Proficiency in Java, Python, JavaScript
- **Frameworks/Platforms/Libraries:** Springboot, Angular, Hadoop, React, Node.js, Apache Spark
- **Statistical Softwares:** R Programming, MATLAB
- **Database:** MySQL, DynamoDB, MongoDB
- **Cloud Platform:** AWS

RELEVANT SKILLS & CERTIFICATIONS

- Amazon certified: "AWS Certified Developer Associate".
- Completed course on Statistics with R Specialization by Duke University (Coursera)
- Completed course on Machine Learning by Stanford (Coursera)

ACHIEVEMENTS

- Recognized by Accenture Leadership for the implementation of Trade Securities.
- Presented paper in ICACT-2018 an IEEE international conference
- Led the technical team as one of the organizers of my College cultural fest Aakshank.
- Helped in organizing seminars and other events, holding the responsibility of technical lead
- Volunteer in Accenture CSR team teaching kids the basics of coding during the weekends.
- Responsible for making college video and other videos and posters representing college and received a letter of appreciation and a medal for the same.
- Finalist in the app development competition called Generex held by IIT Bombay(2016):
- Finalist in the data analytics competition called Imitation Game Competition held by IIT Bombay(2016)