ARPITHA SHESHADRI BHAT

Boston, MA | (857)654-6360 | sheshadribhat.a@northeastern.edu | LinkedIn

EDUCATION

Northeastern University | Boston, MA Expected June 2025
Master of Science in Information Systems
Relevant courses: Application Engineering and Development, Web Design/UX Engineering

PES Institute Of Technology
Bachelor of Engineering in Information Science August 2021
Relevant courses: Data Structures and Algorithms, Object Oriented Programming, Computer Networks, Computer Programming

TECHNICAL SKILLS

Programming Languages: C, Java, Python, JavaScript, PHP
Web Technology: React, NodeJS, HTML, CSS, jQuery, REST APIs
Framework: Spring
Databases: MySql, MongoDB
Rule Engine: Drools

PROFESSIONAL EXPERIENCE

PERFIOS SOFTWARE SOLUTIONS | Bengaluru, India August 2021 - August 2023
Software Development Engineer | Full stack web development

- Contributed to the Perfios's InsureTech mediclaim project, a claim management portal for digitizing and categorizing insurance claim data using React, Java, Spring Boot, and the Drools rule engine
- Replaced existing UI React code with Json schema-based rendering, enhancing the user interface for our project and adapted a Java library to optimize backend code, resulting in a significant reduction in data retrieval time
- Mentored interns to develop an end-to-end data management tool, fostering skill development and contributing to the team's capabilities
- Collaborated with cross-functional teams to coordinate and implement code changes for Proof of Concepts (POCs).
- Spearheaded a hackathon project focused on building a data lake using AWS services, including AWS Lambda, AWS Athena, Amazon S3, Amazon Kinesis, and Amazon OpenSearch Service.
- Received the "Pat on the Back Award" twice for outstanding performance and contributed to the team's "Circle of Excellence Award" for rapid product development in just two weeks

PES RESEARCH CENTRE | Bengaluru, India December 2020 - February 2021
Research Intern

- Worked on achieving end-to-end encryption for smart devices, with a focus on enhancing security
- Implemented homomorphic encryption using the HELib library and CKKS scheme to prevent Man-in-the-Middle attacks and denial-of-service attacks for fitness trackers
- Collaborated with a team of researchers to develop and test encryption solutions
- Demonstrated strong problem-solving skills and a deep understanding of encryption technologies during the internship

ACADEMIC PROJECTS

ML BASED INTRUSION DETECTION SYSTEM FOR WIRELESS NETWORK March 2021 - June 2021
(Python, Pandas, Scikit-Learn, Keras)

- Developed a neural network-based model to detect Denial of Service (DOS), User to Root (U2R), Probe, and Root to Local (R2L) attacks, and conducted a comprehensive performance comparison against various machine learning models
- Led the project by taking responsibility for the preprocessing phase, which included collecting a diverse and relevant dataset for intrusion detection, training and fine-tuning the dataset to align with project requirements, applying data filtering techniques to enhance dataset quality and suitability for the research

TEMPLAR THREAT INTELLIGENCE PROJECT October 2020 - December 2020
(Python, Flask web framework, Beautiful soup for web scraping)

- Designed a system to provide insights into historical cyberattacks and predict potential future attacks by leveraging Machine Learning (ML) techniques and utilizing various cybersecurity tools
- Led the project and contributed to data acquisition by implementing web scraping techniques to collect information about cyberattacks from diverse sources
- Developed a user-friendly website to display the analysis of historical attacks and predictions for future attacks

CHARITY BLOCKCHAIN September 2020 - November 2020
(React, Blockchain)

- Developed an innovative system to identify and approve legitimate organizations while detecting and preventing the incorporation of fake entities, leveraging Blockchain technology for robust backend security
- Led the coding and development efforts for the project's front-end, creating a user-friendly and intuitive interface
- Successfully integrated the project's website with a secure payment gateway, ensuring seamless financial transactions