SHUBHAM PATIL

Boston MA • 857-334-7066 • p.shubham1004@gmail.com • http://www.linkedin.com/in/patil-shubham

Summary

Graduate Student in Information Systems with expertise in Java, UI/UX and Automation. Highly proficient in object-oriented programming languages and IoT. Software and hardware skills put together help me design and understand a system completely. I'm looking for an opportunity to use the skills and expertise in technology to simplify our daily lives and provide solutions to customers that would exceed their expectations.

Education

Master of Science, Information System

Northeastern University, Boston, MA

Expected December 2023

Relevant Courses: Application Engineering and Development (Java), Program Structures and Algorithms, Web Development Tools, Web Design and Development, Data Management and Data Base Design

Bachelor of Engineering

Mumbai University, Mumbai, MH, India

October 2020

Relevant Courses: Internet of Things, Application Microcontroller Image Processing, Digital Signal Processing, Advance Sensors, Feedback Control Systems, Digital & Analog Electronics

Technical Skills

- Programming Languages: Java, JavaScript, Python, HTML5, CSS3
- Database: MongoDB, MySQL, MS SQL
- Frameworks: NodeJS, ReactJS, SCSS, ExpressJS, Bootstrap, Spring MVC, Maven
- Tools: Android Studio, GitHub, NetBeans, IntelliJ, Eclipse, VS Code, Postman, MS Office
- Operating System: Windows, Mac, and Linux
- Others: Data Structures and Algorithms, Networking basics, SCADA, AWS fundamentals

Projects

Analysis and Improvements of Multiple Algorithms, Northeastern University

June 2022 - July 2022

- (Java, Benchmarking tools, BST's, Sorting Algorithms, Searching Algorithms)
- Analyzed and compared 5 sorting algorithms only on basis of array accesses to determine execution time
- Optimized greedy algorithm by 25% for TSP by using its output as input for genetic algorithm
- Determined average height of BST by modifying Hibbard deletion process and making selection random or according to size of candidate nodes

Travel Destination Finder and Blog Website, Northeastern University,

February 2022 - April 2022

- (Java Script, MongoDB, Express, ReactJS, NodeJS)
- Built interactive MERN stack website permitting users to create and handle blogs
- Combined application with APIs such as real time Weather, Google Maps, and EmailJS to plan trips with ease
- Integrated speech to text to enable Voice search to make application easy to use
- Led a four-member team, managed and distributed roles to each member according to skill set increasing total productivity and effectiveness

Application for Virtual Medical Care, Northeastern University

February 2022 - April 2022

- (Java Swing, Java AWT API)
- Developed real time medical treatment comparison system filtering hospitals by location and prices
- Integrated various third-party libraries including Calendar, Maps and Email API to enhance user experience
- Implemented CRUD operations on various enterprise using db4o
- Engineered the SDLC process and data flow of application by creating UML diagrams

Wildlife Surveillance Robot, Mumbai University

August 2019 - March 2020

- (Arduino Uno, AtMega328, UART Communication Protocol, C++)
- Devised to monitor wildlife and collect samples if required with minimum human and animal interaction
- Coded the Arduino with C++ for its proper operation of the remote device
- Designed and built vehicle body with robotic arm increasing its functionality and scope by 30%
- Consolidated HC-12 wireless module for transmission and motor driver IC L293D for motor operations