Sourav Verma

⚲ United States ✉ sourav.verma@ttu.edu ☎ 8064013254 in in/soverma ☁ https://github.com/souravverma94

EXPERIENCE

Associate Senior Software Engineer | Cerner Corporation | Bangalore, India | October 2018 – June 2019
· Worked on Medication Administration Record (MAR) application, which is the report that serves as a legal record of the drugs administered to a patient at a facility.
· Uplifted MAR from an MFC based C++ application to a web application using React JS, HTML5, CSS, and Rails for easy interoperability.
· Implemented, Tested, and Integrated react based, mobile-ready UI components supporting millions of users on multiple platforms across multiple devices.
· Designed and developed reusable and scalable React Components for Cerner's open-source UI component Library (TerraUI).

Software Engineer | Cerner Corporation | Bangalore, India | January 2016 – September 2018
· Located and devised solutions for bugs and maintained code quality for Testing and implementation of MAR application.
· Identified and fixed Graphics Device Interface (GDI) and memory leaks in MAR that reduced downtime by 5%.
· Optimized barcode search algorithm that reduced the billing time by 20% in hospitals.
· Documented software development cycle phases and design documents.
· Promoted from Software Engineer to Associate Senior Software Engineer.

Software Engineering Intern | Copart | Dallas, Texas | September 2020 – Present
· Lay the groundwork for Rails-based infrastructure and assist in developing the web platform for managing vehicle auction creation, scheduling, invitations, and social sharing.
· Design and build reusable and scalable components and front-end libraries using React, Redux and React Hooks.
· Translating designs and wireframes into high quality scalable code

Web Developer – Graduate Assistant | Texas Tech University | Lubbock, TX | November 2019 – September 2020
· Designed and developed responsive and reusable components using Javascript, HTML, CSS, and PHP.

EDUCATION

Master of Science in Computer Science | Texas Tech University | Lubbock, TX | 2021 | 4.0

B.Tech in Computer Science | BK Birla Institute of Engineering and Technology | Pilani | 2015 | 7.45/10

SKILLS

Technical Skills: C++, JavaScript(ES6), TypeScript, Python, Java | Database: MySQL, PostgreSQL, MongoDB

Web Development: ReactJS, Redux, HTML, CSS, Ruby, NodeJS, REST, SOAP

Testing Frameworks: Mocha, Webdriver I/O, Jest, Selenium | Other: Docker, JIRA, Jenkins, Postman, Agile

ACADEMIC PROJECTS

Playing Card Rank and Suite Detector using Matlab | Oct 2020
· Created an application to capture a playing card image and detect its rank and suite
· Learned about image processing basics (smoothing, sharpening, unsharp masking, cropping, and noise removal techniques).
· Used CNN for suite classification and OCR function for rank detection.

Distributed File Exchanging Client-Server Application using gRPC C++ | May 2020
· Implemented a client-server platform using gRPC (Google RPC) in C++ in which a client/server can request data payloads from each other data requests of < 64 bytes – ~1GB (and ranges in between).
· The benchmark recorded the latency and bandwidth of each transfer.

Deep Learning Image classifier to Identify Dog Breeds | Jan 2020
· Classified the breed of a dog using a Pre-trained deep learning model ResNet-50 with PyTorch framework.
· Compared the performance of different CNN Model Architectures (ResNet, AlexNet, or VGG).

ACHIEVEMENTS

· Formed a competitive programming club at college and designed problems and test cases .
· Selected as a recipient of the Microsoft Azure Machine Learning Scholarship among 10k students.
· Presented a technical talk on "DuckRails: Mock the Universe" at Cerner's Annual Developer Conference (DevCon).