Sanmesh Suhas Bhosale

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EDUCATION

Master of Science in Computer Science | GPA: 3.7 Expected Dec 2021
San José State University | San José, CA

Bachelor of Engineering in Computer Engineering | GPA: 3.7 June 2018
Savitribai Phule Pune University | Pune, India

Relevant Coursework: Artificial Intelligence, Machine Learning, Design & Analysis of Algorithms, Information Security, Cryptography & Computer Security, Computer Networks, Object-Oriented Programming, Data Mining, Business Analytics & Intelligence

TECHNICAL SKILLS

Programming Languages: Python, Swift, C, C++, R, Java, SQL, Bash, Shell Script
Web Technologies: HTML5, CSS3, JavaScript, Bootstrap, REST/SOAP
Databases and Data Visualization: MySQL, MongoDB, Tableau, PowerBI
Tools: AWS, GCP, JIRA, Confluence, Git, GitHub, Jupyter Notebook, Advanced Excel, Microsoft Office

PROFESSIONAL EXPERIENCE

Instructional Student Assistant - San José State University | San José, CA Jan 2020 - Present
- Mentor undergraduate students with projects and help with topics in Information Security and Artificial Intelligence
- Aid professor in coursework design, grading, proctoring, and maintaining the course portal

Software Engineer - Insculpt Technologies | Pune, India Jul 2018 - Jun 2019
- Led a team of 4 to design an interactive website using HTML5, Bootstrap framework, and JavaScript
- Efficiently translated client requirements and issues, improving satisfaction and boosting resolution time
- Utilized Agile software development and Test-driven development to build modules, improving efficiency by ~20%
- Spearheaded end-to-end unit and integration testing, halving the testing time of modules

Software Engineer Intern - Proceed Technologies | Pune, India Jun 2016 - Dec 2016
- Manipulated data using SQL queries utilizing aggregation and advanced joins for data analysis and extraction of extensive data
- Collaborated with developers and product stakeholders to refine product features and intended functionality
- Modified existing Python code to improve modularity, resulting in ~13% increase of code readability and reusability
- Proactively designed analytical dashboards using Tableau to generate business insights and measure impact of KPIs

ACADEMIC PROJECTS

Car Price Prediction | Python, NumPy, Pandas, Scikit-learn SJSU Spring 2020
- Performed Exploratory Data Analysis (EDA) to find patterns in Kaggle Vehicle dataset
- Implemented Feature Sampling and Sensitivity Analysis to shortlist the strongest predictors
- Evaluated performance of different machine learning algorithms such as Linear, Polynomial, Ridge, and Lasso regression to predict prices of used cars

Real-time Object Detection in Low-light Images | Python, OpenCV, Deep Learning, Amazon Web Services SJSU Fall 2019
- Collaborated with classmates to combine EnlightenGAN with CLAHE and USM image filters to enhance low-light images
- Performed object detection on these enhanced images using Faster R-CNN, CenterNet, and YOLO
- Fine-tuned Faster-RCNN with transfer learning using 5000 enhanced COCO dataset images to achieve 75% low light object detection accuracy on Amazon EC2 Instance

Key Management System | Python, Cryptography, Encryption, Blockchain SJSU Fall 2019
- Designed a Key Management System in Python to encrypt, divide, and store the private key of a Bitcoin wallet
- Encrypted private key with AES and SHA256 in combination and then divided it using Shamir's Secret Sharing
- Stored divided parts of private key by double encrypting them with DES3, RC2, and Blowfish encryption algorithms