

AMRUT SHENOY

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Objective

Seeking a Co-op position in the field of Software Development for Spring/Summer 2017.

Education

MS, Computer Science, Rochester Institute of Technology (Aug 2015 – Dec 2017)

Big Data Analytics | Data-driven Knowledge Discovery | Foundations of Computer Networks | Foundations of Algorithms | Adv. Object-Oriented Programming Concepts | Adv. Computational Problem Solving | Foundations of Computer Vision

Bachelor of Computer Engineering, University of Mumbai (Aug 2009 – May 2013)

Analysis of Algorithms & Design | Data Warehousing & Mining (ETL, OLAP) | Operating System | Computer Networks | System Security

Technical Skills

Languages: Java, Python, JavaScript, C#, C++

Web Technologies: HTML5, CSS3, PHP, .NET

Version Control: GIT

Database: MySQL, SQL Server, Oracle, MongoDB

Tools: MATLAB, Eclipse, Weka, R, pyCharm, IntelliJ, Wireshark

Software Engineering Concepts: Software Development Life Cycle, Process Models (Agile, Waterfall)

Projects

<https://github.com/amrutshn>

- **Data Analysis for Impact Assessment System (R/MATLAB)** (Sep 2016 – Dec 2016)
 - Planning to implement supervised learning algorithms that would help classify the impact data into classes viz. 'Low Impact', 'Medium Impact' and 'High Impact'. The main aim is to be to establish an algorithm on an Impact Assessment System that would be able to detect direct impacts to the brain of an athlete.
 - Plan to implement Random Forest Decision Tree and Support Vector Machine (SVM) Classifier.
- **Packet Analyzer (Java)** (Sep 2016)
 - Captured data packets using Wireshark and analyzed them to identify and differentiate the underlying Internet Protocol used by the packet such as TCP/IP, UDP and ICMP.
 - Displayed the Ethernet header fields of the captured frames. Printed the packets encapsulated in the IP datagram.
- **Crime Rate Analysis (Weka)** (Mar 2016 – May 2016)
 - Performed analysis on historical data of over 1.5 million reported crime cases and predicted the possibility of occurrence of a crime in an area in a specific time interval. The dataset used was of real-time crime cases reported in Denver.
 - Built E-R model to identify potential attributes that contribute towards prediction of a crime.
- **Digitize Your Handwriting (MATLAB)** (Mar 2016 – May 2016)
 - Designed Optical Character Recognition(OCR) to identify handwritten text in an image. The program converted handwritten text to a digital document with an accuracy in the range of 80%-85%.
 - Implemented Mahalanobis distance metric to differentiate between foreground and background pixels. Made use of correlation coefficients in order to compare handwritten text with built-in digital text. Negative values indicated large variance whereas higher positive values indicated high possibility of a match.
- **Connect Four Field Game (Java)** (Oct 2015 – Dec 2015)
 - Developed a multiplayer Connect Four Field game in Java. The game could be played by multiple players connected in the same network. The game ends when either any one of the player wins the game or when all the moves gets exhausted.
 - Made use of MVC architecture to implement a modelled architecture of programming. Implemented the game using TCP/IP protocol. Also implemented similar version of the game using UDP and RMI protocols.

Work Experience

Assistant Systems Engineer at Tata Consultancy Services Limited (Jan 2014 – Jun 2015)

- Developed a module of online multiplex ticket booking system for an internal project using C# and .NET framework.
- Worked on an Industry Standard Learning Management System (Moodle) as developer.
- Developed interactive learning and training management modules for Baxter Healthcare using Adobe Captivate and Moodle LMS.

Certification

- Published a research paper titled Design of voice based PC control for blind people in International Journal of Engineering Research & Applications (IJERA) in March 2012. ISSN – 2248-9622.
- HTML, CSS and JavaScript Certification from The Hong Kong University in July 2016. License Number - 3YNG7KT3PZTU
- Industrial Summer Training in Ethical Hacking & Penetration Testing by Kyron Digital Securities Limited in June 2012.
- Attended a certified seminar on Android Application Programmer from IIT Kharagpur in May 2012.