Rajaram Pande

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EDUCATION

Syracuse University, Syracuse, New York   **August 2022- May 2024**
Relevant Courses: Advanced Data structures Algorithms, Object Oriented Design, Database Management System

Veermata Jijabai Technological Institute (VJTI), Mumbai, India   **July 2015 - April 2019**
Secured a Bachelor of Technology in Electronics Engineering with *First Class*
Relevant Courses: Neural Networks & Fuzzy Logic, Probability & Statistics, Computer Programming & Problem Solving, Microprocessors & micro-controllers, Digital & Analog Circuits, Signal Processing, and Advanced Engineering Mathematics.

PROFESSIONAL EXPERIENCE

CitiusTech Healthcare Technology Pvt. Ltd., Mumbai, India |*Software Developer*   **July 2019 – May 2022**
Citiustech is a specialist provider of healthcare technology services and business solutions by driving digital innovation and transformational change through next-gen technology solutions across payer, provider, MedTech and life sciences markets.
- Developed and delivered client requirements following Agile project development process to build modules on a client web -application that automates the subrogation process workflow, using AngularJS, NodeJS, HTML and CSS
- Designed and developed RESTful API in NodeJS for critical financial modules for claims settlements and retraction.
- Integrated Pentaho, a business intelligence software to client's application for data analytics as well as developed dynamic stored procedures in MySQL to generate the desired report using Pentaho API.
- Programmed an asset allocation web application using Hibernate, Spring MVC and MySQL to facilitate resource management using supervised access.
- Assessed candidates based on project requirements by testing their programming abilities, overall aptitude; reviewed tests and provided feedback to boost the recruitment process as part of the technical interview panel.

ACADEMIC PROJECTS

Touch Sensitive RFID
- Devised a smart switchboard to remotely detect touch commands on a passive tag antenna using Python.
- Trained a radio frequency transmitter, to be read by a radio frequency receiver and enabled touch-based switching, sensing, and monitoring systems.
- Implemented a pulse code modulation algorithm. Designed and developed a microstrip copper antenna tag.
- Technologies used: ADALM Pluto SDR, RTL SDR.

Wi-Fi Based Indoor Localisation using RSSI Values for the Blind
- Engineered a microcontroller based indoor navigation system to help visually impaired persons navigate indoor environments on Python, using Wi-Fi beacons and triangulation.
- Applied Dijkstra's algorithm to find the shortest path between the source and destination.
- Technologies used: STM32F411 microcontroller, ESP8266 microchip.

EEG Signal Processing
- Enabled the conversions of continuous EEG (Electroencephalograph) signals obtained from physio net by applying Fourier transform into frequency domain and separating dominant frequencies from noise.
- Executed logic for Fourier transformation using MATLAB, to convert EEG signals into frequency domain.
- Technologies used: MATLAB.

SOFTWARE SKILLS

- Programming Languages: JavaScript, C++, HTML, Java
- Design and Simulation Software: MATLAB, Scilab
- Microprocessors: 8085, 8086
- Frameworks: Angular JS, Sails MVC for NodeJS, Spring MVC for Java

HONORS & AWARDS

- Coordinated with a team of 5 to develop a length measuring system using Lidar and qualified to the quarter-finals of Texas Instruments India Innovation Challenge in December 2017.
- Won Wallstreet a state level stock market simulation competition organized by E-Cell VJTI & Technovanza in 2018.
- Completed a certificate program on "Advanced Treasury and Foreign Exchange Risk Management" by Bombay Stock Exchange in August 2018.

EXTRA-CURRICULAR & LEADERSHIP ACTIVITIES

- Served as a member of the founding committee, Core member, VJTI IEEE, IEEE Student chapter of VJTI to help bootstrap projects, provide guidance and mentorship for projects and the electronics involved.
- Member of VJTI Debates and Literary Arts Society (DLA), 2015-17, edited and wrote columns for VJ. News, the college's official newsletter.
- Secured German A1 certification provided by Mumbai University in April 2021.
- Completed Introduction to psychology course offered by Yale University from Coursera in April 2020.