Rahul Sirasao

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Objective

Seeking an intern position to expand my exposure to a real world work environment in the area of software development, software testing, data science, machine learning, and statistical analysis which will use my problem solving and communication skills

EDUCATION

University of Illinois at Urbana Champaign Aug '14 - May '18
Bachelor of Science in Computer Science and Statistics

- Dean's List: Spring 2015
- Relevant Coursework: Data Structures, Computer Architecture, Discrete Structures, Statistical Analysis, Probability Theory, Linear Algebra

EXPERIENCE

Laboratory 206 Corporation June '15 - August '15
Information Technology Intern

- Oversaw and Headed the company's sector of Quality Assurance
  - Coordinated, organized, and logged U.I. and backend development bugs through Trello
- Utilized and controlled performance-analysis and testing tools for dynamically tracing and profiling OS X and iOS code
  - Tracked internal processes, collected data, and interpreted the collected data
- Consolidated in the design and function of multiple User Interface Features on main product
- Collaborated with company's Technical Marketing Team
- Promoted and publicized product through advanced SEO methods

PROJECTS

Expanding Image Processing Class: Developed a Image processing class in C++ to include following functionality. This will be enhanced to have more features.

- Reading and writing IMG and PNG file, Image Operations: Rotate, Translate, Fill, Resize, Flip
- Convolution functions: Median Filter, Sobel Operator for edge detection, General convolution operator for machine learning
- **Photomosaic generator** by using k-d tree to find nearest neighborhood.

Tree Class: Developed classes to implement following common tree structure in C++: B-Trees, K-D Trees, AVL Trees, Huffman Trees, Binary Search, Quad Trees

Simple Sentiment Classification of Twitter messages: Developed Java based sentiment classifier which uses predefined dictionaries of positive and negative words using Aho–Corasick data structure.

Project Hummingbird: Developing an autonomous quadcopter from scratch with the Student Space Systems Club. Responsible for architecture and software development of the quadcopters flight stabilization functions using a PID controller. Arduino and FPGAs will be used for this purpose.

SKILLS

Languages/OS

- JavaSE, C++, Verilog, R, Mathematica, HTML/CSS, Python, Linux, iOS, Android

VOLUNTEER/ ACTIVITIES

Anandwan Medical Hospital/ Omkar Trust June '13 - Dec '15
Social Volunteer

Black and Brown Youth Society September '14-May '14
Co-founder and President

Track and Field December '10-May '14
Team Captain

Student Space Systems January '16-
Member