

Sankarshan Mudkavi

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Summary of Qualifications

- **C++**: Personal projects, high school courses, workplace
- **Python**: Online coursework, personal projects, workplace
- **Java**: High school courses
- **Ruby, JavaScript, HTML, CSS, MySQL** and **L^AT_EX**: Basic functionality

Personal Projects

- **Ballstorm**: Built an interactive graphical game with a physics engine using the C++ allegro library
- **CloG**: Made a basic web blog using Google AppEngine as a back-end framework as part of CS 253
- **DuckDuckShogi**: Built a rudimentary functional search engine as part of CS 101
- **PrQL**: Programmed a basic database management system with SQL-like functionality in C++
- Built basic code that implemented algorithms used in robotic vehicles as part of CS 373
- Solved over 50 problems on Project Euler with python implementations

Work Experience

Research Intern, Syracuse University, NY

May - August 2013

- Researching evolutionary algorithms with applications to multi-objective optimization in wireless sensors
- Modeling of mobility and tracking within wireless sensor clusters
- Application of existing evolutionary algorithms to sensor deployment based on problem specifications
- Analysis of behavioral patterns to detect deviations by training sensor networks using obtained data

Education

Candidate for Bachelor of Science

2012 - 2017

- Honours Co-operative Physics, University of Waterloo

Applicable coursework

- CS 101: Introduction to Computer Science (Udacity)
- CS 373: Programming a Robotic Car (Udacity)
- CS 253: Web Application Engineering (Udacity)
- CS 221: Introduction to artificial Intelligence (Udacity) - In progress
- CS 212: Design of computer programs (Udacity) - In progress
- CS 215: Algorithms (Udacity) - In progress
- CS 191x: Quantum Computation (Berkeley, edX) - In progress

Awards

- University of Waterloo President's scholarship 2012
- Indian National Mathematics Olympiad Scholar 2011