Advitheey Chelikani

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EDUCATION

California Institute of Technology (Pasadena, CA) 2014-Present
Freshman, Computer Science, GPA: N/A
Illinois Mathematics and Science Academy (Aurora, IL) 2011-2014

OBJECTIVE

Learn cool things about computer science, meet some exciting and passionate people, and get a chance to apply classroom knowledge.

SKILLS

Programming Languages: Python, Java, JavaScript, and basic knowledge of Swift.
Other: iOS Development, Prototyping with Sketch 3

PROJECTS

Spontaneity: iOS app that streamlines the process of planning spontaneous meet-ups with friends. Built at HackSC: **http://challengepost.com/software/spontaneity-np744**
Elegant Evolution: A heuristic algorithm for the traveling salesman problem.
Whack-A-Mole Bot: Coded a bot in Python for the online flash game Whack-A-Mole.

ACADEMIC HONORS AND AWARDS

American Computer Science League 2012-2014
- Three-time National All-Star Contest Qualifier

picoCTF Hacking Competition by Carnegie Mellon 2013
- 89th place out of 2000 teams

WORK EXPERIENCE

CityScan - Software Engineering Intern Summer 2014
- Used JavaScript and CartoDB to embed map data into a webpage
- Worked with Accela API to help create a demo of how CityScan data integrated with Accela's framework
- Wrote Python scripts for data formatting

RESEARCH EXPERIENCE

Artificial Intelligence Algorithms as Applied to the Board Game Go
- With IMSA CS Professor, Dr. Phadmakar Patankar
- Analyzed the effectiveness of algorithms like Monte Carlo

Markov Decision Processes and Determining Optimal Automobile Insurance Claim Behavior
- With UIC CS Professor, Dr. Piotr Gmytraciewicz
- Created a Java program that determines optimal claim behavior given certain information about the customer's insurance policy

Comparing the Rate Monotonic and Earliest Deadline First Scheduling Algorithms
- With IIT CS Professor, Dr. Shangping Ren
- Determined the advantages and disadvantages of each algorithm in given situations