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ROHITH KRISHNAN PILLAI

EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Bachelor of Science in Computer Science
Minor in Computational Biology
Expected Graduation: May 2018
Overall GPA: 3.69/4.00

EXPERIENCE

Summer Scholar: Relating Children's Auto-Detected Facial Expressions to their Behavior in RoboTutor
@Robotics Institute, Carnegie Mellon University,Pittsburgh, PA

Jun, 2017 – Aug, 2017

- Worked on the $1M XPRIZE finalist RoboTutor team in analyzing automatically detected student facial emotions data and finding correlations to in-app behavior, for behavior predication
- Worked on designing a model for mapping action units to educationally relevant emotions in android app.

Student Researcher: Acoustic Analysis of Text (AAT)
@Carnegie Mellon University in Qatar, Doha, Qatar

May, 2016 – Aug, 2016

- Created a program that identifies phrases that create sounds.
- Achieved results using machine learning techniques like SVMs.
- Began a novel research into a new field.

Summer Intern: Summarizing the Perception of Qatar on Twitter
@Qatar Computing Research Institute, Doha, Qatar

May, 2015 – May, 2016

- Implemented programs to create visual forms of data analysis using data collected and processed from Twitter.
- Built a web page to display results.
- Research poster and extended abstract accepted to ACM WebSci'17

Student Research Assistant: Alice in Middle East
@Carnegie Mellon University in Qatar, Doha, Qatar

May, 2015 – Jul, 2015

- Wrote end of chapter questions for the English revision of the textbook for CMU's Alice Software for use in schools in Middle-east.
- Proof-reading of the revised textbook.

PROJECTS

Protein Back-translator   November, 2016

Created a program to back-translate yeast protein sequences to DNA sequences, constructed using hidden Markov models (HMM) on open-reading frame data. Achieved accuracy of up to 70%.

Elemental Reversi   November, 2014

Created a themed Reversi game, implemented entirely in Python 2.7, and tkinter based GUI.
Features: Computer Opponent, two player mode, customizable pieces, save/load game.

DEANS LIST

Fall 2014, Spring 2015
Fall 2015, Fall 2016, Spring 2017

SKILLS

- Programming Languages: Python, C, Java, SML-NJ, R, Matlab
- Machine Learning tools
- ROS and Gazebo
- Web development: HTML, CSS, JavaScript
- Design tools: Adobe Photoshop, Premier Pro
- Other skills: proficient with UNIX machines, LaTeX

LEADERSHIP

- Student Academic Committee Member (2016 - 2017)
- Communications Officer of Computing Club (Aug, 2016 - Dec, 2016)
- OIE Advisory Board Member (2016 - 2017)
- Orientation Media Coordinator (Aug, 2016)
- Vice President: The Planetary Society CMUQ (Aug, 2015 –May, 2016)
- Student Mentor for Computer Science freshman (Aug, 2015 – May, 2016)

COURSE ASSISTANT

- 15-112: Introduction to Programming and Computer Science (Fall 2015)
- 16-311: Introduction to Robotics (Fall 2017)

RELEVANT COURSES

- Introduction to Machine Learning
- Introduction to Robotics
- Principles of Imperative Computation
- Parallel and Sequential Data Structures
- Algorithm Design and Analysis
- Fundamentals of Functional Programming
- Computational Genomics