IKRA MONJUR

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EDUCATION

Cornell University, Ithaca, NY   *Expected May 2021*
BS in Computer Science
GPA: 3.6 (Dean's List – Spring 2018, Fall 2018)

Relevant Coursework: Object Oriented Programming and Data Structures • Discrete Structures • Digital Logic and Computer Organization • Data Structure and Functional Programming • Introduction to Game Architecture • Embedded Systems

RELEVANT EXPERIENCE

Undergraduate Research Assistant   *September 2018- Present*
Autonomous Systems Lab, Cornell University, Ithaca, NY
- Work on Autonomous Mini Robotic Cars for AI Driving Olympics Competition
- Collaborate with a sub team of 3 students to work on localization and mapping of the robot using SLAM
- Implement a particle filter in order to localize the robot

Navigation Team member   *September 2018- Present*
Cornell Autonomous Bicycle – Project Team, Cornell University, Ithaca, NY
- Work on a research project aimed to create a self-steering, self-navigation, and self-balancing bicycle
- Collaborate with other team members to enhance the autonomous bike's navigation system
- Improve the accuracy of the bike's location by getting a better GPS

PROJECTS

Personal Website   *November 2018 – December 2018*
- Created a personal website from scratch to showcase my portfolio and skills
- Utilized HTML, CSS, and JavaScript in order to implement basic functionalities of the website

Othello/Reversi Game   *November 2018 – November 2018*
- Worked in a team of four to create a text-based game of Othello using OCaml
- Implemented different game modes including a two-player version, an AI version using the minimax algorithm, and a training/learning mode
- Implemented a variety of commands such as put, undo, preview, recommend (from AI), save, load etc.
- Completed many additional functions individually to make commands such as undo work seamlessly

Android Planner App   *January 2017 – February 2017*
- Worked in a team of three to create an android planner app using Android Studio
- Integrated the app calendar with the NYC school calendar to include holidays and breaks during the school year
- Implemented basic functionalities of a planner including the ability to add/edit homework, tests, events etc.

SKILLS

Technical Skills: Java, OCaml, HTML/CSS, Python, Git, Android Studio, Verilog

WORK EXPERIENCE

Student Administrative Assistant   *August 2018 – Present*
Campus Life Marketing & Communications, Cornell University, Ithaca, NY
- Use Adobe Illustrator to edit posters to promote events around the campus
- Help the office staff with clerical work

Technology Instructor   *July 2018 – August 2018*
Lavner Camps, New York, NY
- Taught basics of game design, programming, web development, and LEGO robotics to 6-13-year-old campers
- Assisted the camp director setup for events and talk to parents