ARYAA VIVEK PAI

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EDUCATION

Cornell University, College of Engineering **GPA: 3.99**
Candidate for Bachelor of Science in Computer Science Degree Expected: Spring 2022
Dean's List
Minors: Electrical and Computer Engineering • Business Management
Current Courses: Analysis of Algorithms • Intro to Machine Learning • Computer Graphics • Artificial Intelligence Practicum
Relevant Courses: Foundations of Artificial Intelligence • Functional Programming • Data Structures and Object-Oriented Programming • Discrete Structures • Backend Development • Digital Logic and Computer Organization • Embedded Systems

Gems Modern Academy, Dubai, United Arab Emirates Spring 2018
Valedictorian

RELEVANT EXPERIENCE

Scientia Innovation Pvt Ltd, Bengaluru, India Summer 2020
Full Stack Development Intern
- Developed and customized a marketplace website for educational products using the Magento Platform, HTML, PHP and CSS.
- Worked with a team of two developers to create an app for the marketplace using Flutter.

McMahon Lab, Ithaca, NY Spring 2020-Summer 2020
Research Assistant
- Optimize the k-SAT solver and Coherent Ising Machine simulator using Parallel Programming on FPGAs .

Cornell University Computing and Information Science Department, Ithaca, NY
- Functional Programming and Data Structures, *Teaching Assistant* Spring 2020-Fall 2020
- Introduction to Computing using Python*, Undergraduate Course Assistant* Fall 2019-Present

Cornell University Autonomous Underwater Vehicle, Ithaca, NY Fall 2018-Present
Member of the Electrical Team
- Developed sensor board for data acquisition and thruster board to control brushless motors using electronics speed controllers.
- Designed schematic and layout in KiCAD; Hand soldered; Integrated with firmware using SPI and I2C for communication.

NTN, Mumbai, India Summer 2017
Software Engineering Intern
- Collaborated with the Software Engineering team to develop a database system to keep track of the product development process.

RELEVANT PROJECTS

Cadence Summer 2020
- Collaborated with a team of three to create a music training system that relates sheet music to physical piano keys.
- Develop an app that translates sheet music to audio files using OpenCV and recognizes the musical notes in an audio file.

CroK64 Spring 2020
- Created a two-player online version of croquet implemented entirely on the NXP FRDM-K64 board.
- Used UART and I2C to transmit data between the on-board sensors and the laptop; TCP for internet communication.

Ezra Fall 2019
- Developed a chat-bot for students to maintain their schedule and get Cornell specific information using OCaml.
- Used object-oriented programming techniques, data structures and functional programming.

Cu-Celebrate Spring 2019
- Backend developer for the forum app that helps students to learn about events at Cornell and post their own events.
- Used Flask and SQL to facilitate query requests to the Cornell Events API.

SKILLS

Programming Languages: Java • Python • C • OCaml • Dart • QBASIC • HTML • CSS • SQL
Tools: Magento • Flutter • Swift • KiCAD • Verilog • Blender • Docker
Languages: Hindi [Fluent Writing] • Marathi [Fluent] • Kannada [Fluent] • French [Proficient in Reading and Writing]

CAMPUS ACTIVITIES

Creative Computing Club, *Virtual Reality Game Developer* Fall 2019-Present
Herbert Johnson Museum of Art, *Visitor Services Intern and Training Assistant* Fall 2018-Present
Student Union Board Willard Straight Hall, *President* Fall 2018-Present
Cornell University Big Red Marching Band, *Flute Section Member* Fall 2018-Spring 2019

COMPUTER SCIENCE COMMUNITY

Grace Hopper Celebration, *Received Scholarship to Attend the Conference* Fall 2020
Rewriting The Code, *Part of the Fellowship* Fall 2020 – Spring 2021
Women Engineers CODE, *Conference Attendee* Spring 2019
Women in Computing at Cornell, *Active Member* Spring 2019-Present