Harsh K. Modhera

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Professional Profile

Computer engineering student seeking a full-time position in application and software design. Passionate in learning about signal processing, data collection and security, and systems design.

Education

University of Illinois at Urbana-Champaign   May 2018
Bachelor of Science in Computer Engineering—Emphasis in Software Design   GPA: 3.2/4.0

Related Coursework: Operating Systems, Algorithms, Data Structures, Distributed Systems,
Artificial Intelligence, Parallel Programming, Analog/Digital Signal Processing

Experience/Projects

Application Development: "Community Spotify"   Champaign, IL
Personal Project   Nov. 2017 — Current
o   Creating a mobile application using the React Native framework to allow students on campus to share personal music tastes and discover what others around them are listening to through virtual hubs

ViaSat   Carlsbad, CA
Mobile Application Developer Intern—Broadband Connectivity Team   Summer 2017
o   Collaborated with a design and developer team to create a fully functional cross-platform mobile application for ViaSat's Exede Residential Internet customers using the React Native framework to reduce customer support costs

Archer Daniels Midland Company (ADM)   Decatur, IL
Systems Administrator Intern—IT Core Infrastructure Team   Summer 2016
o   Worked with VMware 6.0 and VMware Service Manager ticketing system (Tier 3 support) to reduce tickets by 37%
o   Performed logistical analysis on the datacenter, VMware licensing and server patching
o   Used PowerShell to script and automate the process of decommissioning VMs for the Global Infrastructure Team

Department of Electrical and Computer Engineering (ECE)   Champaign, IL
Lab Undergraduate Assistant for ECE 110 (Intro to Electronics)   Jan. 2016 — Dec. 2016
o   Facilitated open tutoring and assisted with lab troubleshooting in both circuit design and basic C programming
o   Encouraged discussions on theories and creative applications of ECE 110 content with first year ECE students

Department of Electrical and Computer Engineering (ECE)   Champaign, IL
Independent Project: "Visual Aid for the Blind" with Prof. Christopher Schmitz (ECE Department)   Fall 2015
o   Used a raspberry pi to identify objects in captured images with image recognition algorithms in Python
o   Built a functional hardware device (finite state machine) to simulate user experience

Activities and Awards

Illinois Enactus   Champaign, IL
Project Fellow for Project Oasis and Project Lean & Green   Sept. 2017 — Current
o   Coordinating with the UIUC YMCA to migrate and hand off the Project Oasis website
o   Developing the customer transaction flow for Project Lean & Green's startup initiative

IEEE Jerry Sanders Design Competition   Champaign, IL
Member of the Electrical Team   Aug. 2014 — May 2016
o   Designed and programmed scoring mechanisms on a robot
o   Worked with a team to create an algorithm for path detection on an autonomous robot

ViaSat Summer 2017 Intern Hackathon (Hack for Good winner); Mario DiDomizio Excellence in Education Scholarship (2017); Hack Illinois 2016 (2nd place winner under Intel); Illinois Intersect Leadership Certificate (2015); Mather Alumni Scholarship (2014); The Zeolite Scholarship Foundation (2014); Illinois State Scholar (2014)

Skills

o   **Technical:** C, C++, System Verilog, x86 Assembly, Matlab, VMware 6.0 (Acquiring: ReactJS/RN, Python, CUDA C)
o   **Language:** Hindi (Fluent), Gujarati (Fluent), French (Conv.)