Mitalee Bharadwaj

✉ mitalee2@illinois.edu ☎ 848 565 5543
</> mitaleebharadwaj.com

Education

University of Illinois at Urbana-Champaign
B.S. Computer Engineering
Expected Graduation: May 2020

South Brunswick High School
Diploma with Honors: June 2016

Relevant Coursework

Digital Systems Lab
Digital Logic Design
Data Structures
Introduction to Computing
Systems Programming
Introduction to Electronics
Analog Signal Processing
Probability Engineering Applications
Discrete Structures
Differential Equations

Skills

Programming Languages
C, Python, C++, SystemVerilog, LC3 Assembly
Web Development
HTML, CSS, JavaScript
Frameworks & Libraries
NodeJS, ReactJS, ExpressJS, D3.js, AngularJS, Flask (Python)
Other
Quartus, LTSpice, git, Cadence PCB Design

Work Experience

Bose • Technical Summer Intern
Framingham, MA
May 2018 – Present

Developed prototyping environment for low power embedded camera integration in Bose products

Designed 3D audio spatialization VR experience in Unity to compare several audio SDKs.

Prototyping an AR headset with a specialized audio solution, eye and hand tracking, and a customized PCB.

Sandia National Laboratories • Applied Research Intern
Applied Research Institute (ARI), Champaign, IL
Jun 2017 – Feb 2018

Built a web-based data visualization application to convert various data file formats including: JSON, Google Protocol Buffers, HDF5.

Utilized full stack development of python scripting and file processing, NodeJS server-side scripting, and front-end visualization through ReactJS, D3.js, and RESTful API call.

Dahalia Technologies LLC • Engineering Summer Intern
Brooklyn, NY
May 2016 – Dec 2016

Worked with Arduino, Python and C to design and develop a pulse-width modulation algorithm to create different intensity vibrations on wearable technology.

Research Experience

Lemelson-MIT InvenTeams • Administrative Lead
Sep 2014 – Jun 2015

Received 4500 dollar grant to design and develop a device to prevent car-dooring on cyclists and increase cyclist safety, utilizing CAD, 3-D printing and Arduino to triangulate IR sensors for computation.

Campus Activities

Alpha Omega Epsilon
Fall 2017 – Present

Member of professional and social sorority composed of female engineering and technical science students.

ECE Student Advancement Committee (ECESAC)
Fall 2017 – Present

Vice chair on the student board for ECE department, to plan events and represent the interest and concerns of the students.