Mitalee Bharadwaj

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Education

University of Illinois at Urbana-Champaign
B.S. Computer Engineering
Expected Graduation: December 2019

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

Personal Project

Little Mit's Kitchen
Personal food blog of my recipes, food photography, and favorite eateries.
littlemitskitchen.com

Work Experience

Sandia National Laboratories • Applied Research Intern
Applied Research Institute (ARI), Champaign, IL
Aug 2017 – Present

Developed and Dockerized a web-based data visualization application for easy deployment in a cloud environment.

Add functionality for specific Protobufs format and enable both track plotting and track viewing visualizations.

Collaborate with ARI SSP to work on Kubernetes system monitoring web application and develop a UI for logging.

Jun 2017 – Aug 2017

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 from the Lemelson-MIT foundation.

Designed and developed a device used 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
Social committee member on the student board for ECE department, to plan events and represent the interest and concerns of the students.

Illini Rowing Team
Fall 2016
Coxswain for novice women and men varsity crew. Competed in three regattas.