Anisha Nakagawa

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EDUCATION

OLIN COLLEGE OF ENGINEERING | May 2018
BS in Electrical and Computer Engineering, 3.9 GPA

CAMBRIDGE RINDGE AND LATIN HIGH SCHOOL | 2014
Valedictorian, 4.0 unweighted GPA, First Honors

EXPERIENCE

MIT MEDIA LAB - CHANGING PLACES | Undergraduate Research
June 2016 - present
• Modelled traffic during regional evacuations due to natural disasters
• Developed agent-based model for congestion by applying the queueing model
• Created visualization for the simulation by displaying geospatial data in processing

DRAPER LABORATORY | Software Engineering Intern
May 2015 - Aug 2015
• Designed and developed a web-app and Google glass app to display dynamic visual cues, using human-centered design techniques
• Created web-app to receive signals asynchronously through a WebSocket
• Developed android application, interfacing with embedded sensors

DRAPER LABORATORY | Summer Research Intern
Jul 2013 - Aug 2013
• Implemented path-planning and navigation algorithms on robot, using ROS
• Interfaced with graduate students' work, evaluated success, presented results

OLIN COLLEGE | Teaching Assistant
2015 - 2016 | Linearity 1, Modeling and Simulation, Electricity and Magnetism

PROJECTS

NATURAL RESOURCE MODELING | Independent Study - 2016
Studied different mathematical models for modeling resource use, especially in the context of agriculture and food systems. Researching a system and constraints, in order to design and implement a mathematical model.

NEWS ARTICLES SENTIMENT ANALYZER | Software Design - 2015
Created algorithm to compare news sources using sentiment analysis of articles, to highlight trends and determine bias.

REFUGEE DATA VISUALIZATION | Data Visualization - 2015
Displayed dynamic and interactive map of refugees moving around the world over time, from UN data.

RECIPE-FINDER PROGRAM | Software Design - 2015
Created web-app to search database of recipes with Mongo DB, filter by user specifications, and interface with web GUI with Flask.

MODELING WOLF POPULATIONS | Modeling and Simulation - 2014
Modeled the effect of re-introducing wolves into the Yellowstone ecosystem, and changes in elk and aspen populations. Validated the model with data.

COLOR-CHANGING CHAMELEON TOY | Design Nature - 2014
Designed game experience using biomimicry. Controlled color-changing LEDs using ATMega328 microcontroller (programmed with Arduino).

SKILLS

Languages
Java, Python, C++, C (Arduino), MATLAB, HTML, CSS, Javascript
Tools
Git, LaTex, COMSOL, Mathematica
Platforms
Arduino, Raspberry Pi, Processing, Android (Google glass)

RELEVANT COURSES

Olin College
• Software Design
• Modeling and Simulation
• Data Visualization
• Sensors, Instrumentation, and Measurement
• Electricity and Magnetism
• Principles of Engineering
• Discrete Math (Fall 2016)
• Computer Architecture (Fall 2016)
Harvard University
• Multivariable Calculus
• Linear Algebra and Differential Equations

LEADERSHIP

NET IMPACT BY DESIGN
President
Created new chapter to promote engineering build projects with a social or environmental impact. Leading the research and design for the electrical system of an aquaponics ecosystem.

SUSTAINABILITY CLUB
Co-President
Included in periodic meetings with college CFO, Head of Facilities, and Sustainability Steering Committee. Promoting on-campus sustainability through initiating reusable mugs program and drying racks programs.

AWARDS

• Education First Environmental Challenge Winner (attended Global Student Leaders Summit in Costa Rica)
• SWE Scholarship Recipient
• National Merit Scholarship Recipient
• Harvard Edward Kingman Scholarship Recipient