Medhir Bhargava

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Skills

Javascript, C++, Python, Research, Full-Stack Web Application Development, Product Management

Projects

CEN3031 Curriculum A guided, unit-test driven approach to learning web application development
- Independently implemented an interactive curriculum that guides students through the development of a fully featured web application using modern toolsets (Node.js, Express, Angular, and MongoDB)
- Used by UF's online Computer Science degree program, effectively giving hundreds of students relevant web development skills each semester

Twitter Data Mining A RESTful API providing a simple way to collect and analyze real-time Twitter data
- Implemented several Node services to mine Tweets based on user-provided keywords
- Built an Angular-based user interface enabling users to create search queries for tweets
- Created a sentiment analysis engine with NLTK, a natural language processing library for Python

Work Experience

Course Developer Educative.io | Bellevue, WA   2017 - Present
- Developing course materials teaching web fundamentals through interactive coding exercises
- Topics covered include: structuring content with HTML, styling content with CSS, programming fundamentals with Javascript, and using DOM APIs to build website interactivity

Product Lead Nano Collection | Brooklyn, NY / Gainesville, FL   2016 - 2017
- Designed a flexible, textile-based electrochemical sensor to detect glucose from sweat
- Identified materials suppliers and manufacturing partners towards sensor production

Program Management Intern, Identity and Access Management Microsoft | Seattle, WA   2016
- Developed technical specifications and user interface designs for Privileged Identity Management (PIM), a tool providing granular user permission controls on an organization's cloud-based resources
- Collaborated with large enterprise customers, designers, and software engineers to create improvements to the information architecture and user experience within PIM

Teaching Assistant, Introduction to Software Engineering University of Florida | Gainesville, FL   2015
- Drove curriculum changes to better assist students in learning core web development concepts
- Gave lectures on specific topics, led discussion sections, and held office hours for students

Research Assistant UF Biological Engineering Biosensors Lab | Gainesville, FL   2014 - 2015
- Developed a paper-based, disposable biosensing platform optimized for glucose and E.coli detection
- Mentored undergraduate students in the design and and execution of electrochemical experiments

Education

School for Poetic Computation New York City, NY   2016
Hack Reactor Advanced Software Engineering Immersive | San Francisco, CA   2015
University of Florida Courses in Computer Science and Biological Engineering | Gainesville, FL