Medhir Bhargava

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Skills

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

Projects

CEN3031 Curriculum A guided, unit-test driven approach to learning web application development

- Created a set of Github-driven assignments that teach students the fundamentals of web development by interactively building a full-stack web application from scratch
- Used by UF's online computer science degree program, effectively giving hundreds of students skills in developing MEAN stack web applications using Agile principles each semester

Twitter Data Mining A RESTful API providing a simple way to collect and analyze real-time Twitter data

- Implemented several Node services that collectively listen for keywords on a Twitter stream, process tweets, and write them to a MySQL database
- Built a user interface using Angular that enables users to create search queries for tweets
- Used a Naive Bayes Classifier to analyze the sentiment of individual tweets with NLTK, an open-source Python natural language processing library

Work Experience

Product Lead Nano Collection | Brooklyn, NY   2016 - 2017

- Designed a flexible, textile-based electrochemical sensor to detect glucose (blood sugar) from sweat
- Identified materials suppliers and manufacturing partners towards sensor production
- Currently drafting technical specifications for hardware and software components of sensor platform

Program Management Intern, Identity and Security Division 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 information architecture and user experience within PIM

Teaching Assistant, Introduction to Software Engineering University of Florida | Gainesville, FL   2015

- Designed curriculum to teach students 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

Research Publications

A comparative study of graphene-hydrogel hybrid bionanocomposites for biosensing Analyst, 2015

A paper based graphene-nanocauliflower hybrid composite for point of care biosensing Biosensors + Bioelectronics, 2016

Education

Hack Reactor Advanced Software Engineering Immersive | San Francisco, CA   2015

University of Florida Courses in Computer Science and Biological Engineering | Gainesville, FL