

Medhir Bhargava

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Skills

Javascript, C++, Python, Research, Full-Stack Web Software Development, Program 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
- Designed to scale to 100s of students with backgrounds in Java and C++ on how to effectively use modern web frameworks, specifically MongoDB, Express, Angular, and Node.js

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

Program Management Intern, Identity and Security Division Microsoft | Seattle, WA 2016

- Developed technical specifications and user interface designs for updates to Privileged Identity Management (PIM) as part of Microsoft's Azure Active Directory (AAD) offering
- Collaborated with large enterprise customers and software engineers to implement features that improve the security of an organization's sensitive data through the governance of user permissions

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

Web Development Intern Mobiquity Inc | Gainesville, FL 2014

- Built features for an internal content management system for employee training materials

Research Assistant UF Biological Engineering Biosensors Lab | Gainesville, FL 2014 - 2015

- Developed a robust, disposable biosensing platform optimized for glucose detection
- Mentored undergraduate students in the design 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 and Biological Engineering | Gainesville, FL