

Medhir Bhargava

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Skills

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

Projects

Wearable Glucose Biosensor Textile-based methods for electrochemical biosensing

- Build functional composite materials and characterize their applicability in electrochemical biosensing
- Fully developed a flexible nylon/graphene/nanoplatinum non-enzymatic glucose detection platform
- Improving sensor stretchability through the use of knitting for electrode fabrication

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

Work Experience

Founder Nano Collection | Brooklyn, NY 2016 - 2017

- Developing a flexible, stretchable textile-based electrochemical sensing platform towards consumer-based non-invasive glucose detection for preventative health analytics.

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

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 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

School for Poetic Computation New York City, NY 2016

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

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