

Emerson Joseph Summe Walsh

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Professional Experience

Deloitte Consulting, LLP | Strategy & Analytics Practice (Washington D.C)

July 2017 – Present

Business Technology Analyst, Consultant

Semantic Open Source Software (SEMOSS) - Front-End Software Developer

- SEMOSS is an open-source, web-based, end-to-end data analytics platform developed in-house at Deloitte and deployed at 20+ commercial and federal clients, with 1,000+ monthly active users
- Designed, implemented, and tested 50+ key features pushed to the production build of SEMOSS, including the entire visualization library with 36 interactive visualization types using canvas, SVG, and WebGL technologies
- Organized and led client interviews to receive platform usability feedback and identify new feature requests
- Created training and marketing materials used to formally train 250+ SEMOSS users and publicly grow the platform
- Worked on an 8-person development team using Agile DevOps practices including sprint planning, continuous integration (package management and code bundling), and test automation to design, maintain, and advance the platform

Government IoT Market Offering - Technical Lead

- Served as a technical lead for Deloitte's GovIoT Market Offering to research, develop, and implement IoT solutions (including predictive maintenance, asset tracking, and digital transformation) for 5 government and public sector clients
- Co-authored 2 winning proposals for Deloitte to implement fleet management solutions using predictive maintenance
- Performed IoT market research and lead communication with IoT solution vendors, forming 3 new partnerships

Oceaneering International Advanced Technology (Hanover, MD)

June 2016 - August 2016

Mechanical Engineering Intern

- Worked on an engineering team of 12 to develop a \$7 Million subsea system funded by DARPA
- Reduced the total cost of the primary buoy system by 25% through design optimization
- Performed data analysis, structural design, technical drawings, and design calculations to build and test a large, unmanned underwater vessel to meet project requirements and optimize performance

Smart Vibe Tennis | Personal Design Project

August 2015 – June 2017

Inventor

- Successfully developed a first-generation mobile prototype using a 9-axis inertial measurement unit capable of wirelessly streaming data to analyze a player's performance, output statistics (swing speed, duration of play, etc.), and recognize shot type (forehand vs. backhand, topspin vs. slice)
- Awarded \$1,000 from the Student Initiatives Fund (sponsored by Johns Hopkins Alumni and the Whiting School of Engineering) for the development of a "smart" vibration dampener for tennis rackets

Genscape Inc. (Louisville, KY)

June 2014 - August 2014

Research & Development Scientist

- Genscape provides real-time data and intelligence for global commodity and energy markets by measuring market fundamentals using patented monitors deployed worldwide
- Independently designed and implemented an automated program to identify and track vehicle traffic at biofuel pump stations through image analysis methods to deliver insights into nation-wide biofuel production levels for customers
- This program reduced the number of man-hours required to monitor biofuel production by over 75%

Johns Hopkins University

B.S. in Mechanical Engineering

Class of 2017

- GPA: 3.72 / 4.0
- Four-time NCAA All-American & Team Captain (2016-17 season) of Men's Varsity Tennis Team
- Two-time recipient of the JHU Student Initiatives Funding (2015 & 2016)
- Computer-Aided Design Teaching Assistant (Spring 2016)

Skills & Interests

- Areas:** Data Visualization, UI/UX, Product Roadmapping
- Technologies:** JavaScript (AngularJS, React, Vue), HTML5, CSS/SCSS, Node, Python, MATLAB, Webpack, Computer-Aided Design
- Personal:** Skiing, Scuba Diving, Tennis, & World Travel