

Emerson Joseph Summe Walsh

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Professional Experience

Deloitte Consulting, LLP | Deloitte Digital (Washington D.C)

July 2017 – Present

Software Engineer

- Using Agile practices and a variety of front-end technologies, developed 5 responsive, high-traffic websites and applications for public and private sector clients

Semantic Open Source Software (SEMOSS) [semoss.org]

- Designed and developed 50+ key features pushed to the production build of an open-source, web-based, end-to-end analytics platform used to blend, collect, prep, analyze, and visualize data for 20+ federal and commercial clients
- Developed and implemented the entire visualization library with 36 interactive and customizable visualization types
- 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

U.S. Army - ArmyIgnitED [armyignited.com]

- Collaborated with a team of 30 developers to build a live, responsive web application used by 130,000+ Soldiers of the U.S. Army to discover education opportunities and apply for tuition assistance and class reimbursement
- Developed the landing page and worked closely with designers to style numerous pages of the application, providing a consistent user experience throughout the application across all devices and browsers

U.S. Department of Agriculture – Integrated Food Management System (IFMS)

- Developed and implemented 18 custom web components added to the Salesforce interface of the point-of-sale system providing food for 90,000+ Native Americans and managing inventory at Indian Tribal Organizations

Government IoT Market Offering – Enterprise Digital Tracking

- Built a custom front-end for a web application used to demo the firm's real-time location tracking capabilities of indoor assets using IoT devices to improve throughput efficiency and enhance shop visibility

Pangiam [pangiam.com]

- Developed and deployed a static website showcasing Pangiam's travel consulting services and press

Oceaneering International Advanced Technology (Hanover, MD)

June 2016 - August 2016

Mechanical Engineering Intern

- Worked on a team of 12 engineers to build a \$7 Million unmanned, subsea vessel funded by DARPA
- Performed design optimization through computer-aided design to reduce the cost of the primary buoy system by 20%

Smart Vibe Tennis | Personal Design Project (JHU & University of Berkeley)

August 2015 – June 2017

Inventor

- Awarded \$1,000 from the JHU Student Initiatives Fund to develop a "smart" vibration dampener for tennis rackets
- Developed a mobile prototype using a 9-axis inertial measurement unit, 3D printing, and injection molding capable of wirelessly streaming data to analyze a player's performance and output statistics, as well as recognize shot types

Genscape Inc. (Louisville, KY)

June 2014 - August 2014

Research & Development Scientist

- Developed and implemented an automated program to identify vehicle traffic at biofuel pump stations using image analysis technologies to track nation-wide biofuel production levels used by commodity traders
- 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 (2016-2017 season) of Men's Varsity Tennis Team
- Two-time recipient of the JHU Student Initiatives Funding (2015 & 2016)

Skills & Interests

- Technical Stack:** JavaScript & TypeScript (Angular, React, Vue, Lightning Web Components), HTML5, CSS/SCSS, Nunjucks, Node, Express, NoSQL (MongoDB), Relational (Salesforce), Apex, Python, R, MATLAB, Computer-Aided Design
- Development Tools:** VSC, Git, Webpack, Gulp, Netlify, Heroku, WordPress, Salesforce, Liferay, Okta, InVision, Abstract, JIRA
- Favorite Front-End Libraries:** D3, Echarts, Highcharts, WebGL, Bootstrap, Material UI, Atlassian's Drag & Drop
- Personal Interests:** Skiing, Scuba Diving, Tennis, & Travel