

ERICH MEISSNER

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EDUCATION

Georgia Institute of Technology

Expected May 2021

College of Computing, M.S. Computer Science

University of Maryland, College Park

Graduated May 2018

James A. Clark School of Engineering, B.S. Electrical Engineering

Technical Skills: Database - SQL Server, MySQL, MongoDB; **Programming Languages** - R, C, Python, Java, C#; **Web** - PHP, HTML/CSS, ASP.NET (MVC/WebAPI), REST APIs, JavaScript; **Test Frameworks** - MSTest, Cucumber; **Source Control** - Git (GitHub and BitBucket); **Cloud** - Azure, AWS, GCP; **Project Tracking** - JIRA; **DevOps** - Docker

WORK EXPERIENCE

Medical Guardian -- Personal Emergency Response Systems (PERs)

Philadelphia, PA

Software Engineer

August 2018– May 2019

- Developed REST APIs for elderly smart-watch communications with server to enable progressive web app design
- Designed database structure for smart-watch hosted on Microsoft SQL Server and wrote complex queries with the PHP framework Laravel's query builder
- Created a user-facing web portal for elderly aides to perform actions on the watch built on PHP and utilizing JavaScript for client side requirements
- Implemented my portal as an OAuth 2.0 client to authenticate and authorize users and experimented with Docker and Kubernetes to test this product roll-out on a more reliable, load-balanced platform

Deloitte -- Insight Studio Data Science

Arlington, VA

Tech Summer Scholar

May 2017– August 2017

- Completed a smart city dashboard using D3.js, Ruby on Rails, and R to visualize Washington D.C. data on crime, traffic, education, demographics, transportation, and economic development for Mayor Muriel Bowser
- Developed sentiment analysis using a Support Vector Machine (SVM) learning technique in Python with input from Facebook, Twitter, Reddit, etc... to gauge consumer attitudes for federal and commercial clients

Battelle -- Climate Change Research Institute

Riverdale, MD

Tech Student Intern

June 2016 – September 2016

- Read in 3.4 terabytes of USDA crop and livestock production data to translate into carbon flux and determine the carbon cycling relationship of predominant American agriculture at the county level

SpaceX Hyperloop Competition

College Park, MD

UMD - Electric Systems Team

September 2015 – May 2017

- Advanced as one of 22 teams to test prototyped pods on SpaceX's Hawthorne, CA test track (1300 initial proposals)
- Drafted Computer-Aided Design (CAD) sketches for low-power implementation of 350kWh battery for all systems

LEADERSHIP & ACTIVITIES

Symbiont Health LLC

Kensington, MD

Co-Founder and CEO

April 2015 – September 2018

- Raised about \$100,000 in University and VC grants/awards to develop a fall detection device for elderly patients
- Designed a modular wearable for the wrist, chest, and waist to accurately detect a fall with >92% accuracy

Student Government Association (SGA)

College Park, MD

School of Engineering Representative

May 2015 – January 2017

- Devised new strategies and fund allocations for engineering clubs and organization as overall enrollment increases

Honors & Interests

Full Banneker/Key Scholar and Mentor

University of Maryland

UMD Full Scholarship

April 2014 - Present

- The Banneker/Key Full Scholarship is awarded to the top 0.5% of UMD applicants each year

National Merit Scholarship

National Merit Scholarship Corporation

Senior Marshal

University of Maryland

- Chosen as the most outstanding leader of the School of Engineering and led the graduation procession *May 2018*