



VirtUE Introduction

(organization capabilities for teaming opportunities)

Name of Organization: Data Machines Corp.

Lead Investigator: Eric Whyne

Current Team Members: Sotera Defense Solutions

$$H(X) = \sum_{i=1}^n P(x_i) \log_b P(x_i) = - \sum_{i=1}^n P(x_i) \log_b P(x_i),$$

Research areas of interest

- Full Stack Public and Private Data Science Architectures
- Data Science Research (visualization, machine learning)
- Site Reliability Engineering and Computer Security
- Exploratory Data Analysis
- Data Collection and Data Engineering

Open Source

Open software and standards are a foundation for innovative and important work in science, education, and industry. The customers who value our professional services help us contribute to these communities.

Full Stack

Good developers that are familiar with the entire technology stack know how to make better solutions and life easier for those around them.

Automatic

Creating and managing automatic intelligent behavior is necessary to work elastically and securely at scale. We build systems that adapt to unpredictable change and simplify their intrinsic complexity for operators and users.

Technology Agnostic

There's no 'one size fits all' answer in data science, computing, or security. Our core competencies focus on enabling and embracing rapid change to increase effectiveness and lower costs.

Qualifications and capabilities

(stated as current work)

Performing on 7 DARPA programs

Designed, built, and operating full stack Data Science Research Architectures comprised of hundreds of computers running thousands of containers and vms. There are 823 registered government and contractor users of which about 80 are daily active research users interacting with the systems.

Designing and leading the transition of open research code to classified environments for three different agencies.

Designed, deployed, and operating web scale load balanced architectures on public cloud providers (AWS, GCE, Softlayer, Rackspace). Elastic load balancing, security, and end to end automation and reporting.

Commercial B2B Exploratory Data Analysis (data science for hire)

Strategic efforts and projects

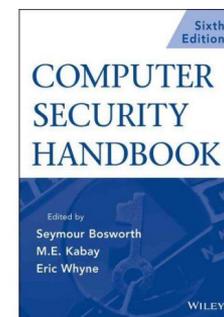
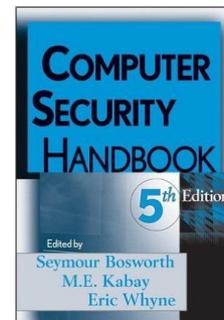
Computing and data are strategic national resources. The continued accessibility, abstraction, and security of computing is vitally important to our country. We're coordinating efforts and supporting seedlings toward these ends with a focus on open standards, open source, and making things as free as possible. (science and defense)

The **Computer Security Handbook** has been in continuous publication since the 1970s. The last version had over 80 authors and 2000 pages covering all aspects of computer security. We're currently planning and soliciting contributors for the next version to be published in 2019.

VirtUE Teaming

We are looking for partners who are ideologically aligned or complimentary with our core values (open source, full stack, automation, technology agnostic). We prefer working with partners and intelligent individuals who are open to collaborative research, open source software development activities, and shared success.

We are probably not interested in partnering with product companies unless those products have a significant open source community.



Contact

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