

# Dainis Bumber

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## Education

- **Ph.D.** in Computer Science, University of Houston, 2013 - 2018 (Projected)
- **B.Sc.** in Computer Science, University of Houston, 2012
- Awards: GAANN Fellow, Dean's List, Academic Excellence Award.

## Employment History

- 2017-present **CTO and Co-Founder**, AI Savvy, Inc.
- 2017-2018 **Data Scientist**, AE Studio
- 2014-2018 **Research Assistant**, Pattern Analysis Laboratory, University of Houston
- 2015, 2016 **Research Intern**, HRL Laboratories (summer internships).
- 2013-2014 **Research Scientist/Project Manager**, I2C Laboratory, University of Houston
- 2013 **Intern**, Air Force Research Laboratory
- 2006-2012 **Software Engineer**, DomainSpa Inc.

## Technical and Management Experience

- **AI-Savvy**: Responsible for Solution Architecture, Data Science, and delivery of product.
- **AE Studio**: Researched and developed solutions for clients who needed Visual QA and Visual Dialogue. Used Image Recognition, NLP and Deep Learning to help achieve their goals.
- **Pattern Analysis Laboratory**: Thesis in Self-Adaptive Deep Neural Networks, research in various areas of Machine Learning.
- **I2C Laboratory**: Managed a project that improved mobile device's security by detecting is the person using it is not the owner based on previous patterns. Engaged in applied data science research during our work to prevent DDoS attacks on 911 emergency telecommunication channels. Designed and implemented an array of libraries and toolkits. Both projects were funded by the DHS.  
Key Areas: Deep Learning, Convolutional Neural Networks, Speaker Verification, Security, IoT.
- **HRL Laboratories**: SEAndroid/SELinux kernel modification project for the GM. CloudCOP - Distributed Cloud Cryptography Project for the NSA.
- **Software Engineer, DomainSpa Inc.** Designed and implemented applications and tools for a domain registrar. Co-authored a meta-search engine.

## Technical Skills

- **Expert level**: Tensorflow, sklearn, Python, C, C++. Working knowledge of 10+ other languages.
- Comfortable with most tools used in data science: Docker, Keras, Caffe, Torch, mxnet, R, others.

## Projects

- Co-author of openSMILE for Android, popular software used in Acoustic Pattern Analysis.  
**openSMILE** - <http://www.audeering.com/research/opensmile/>
- **Github**: dainis-bumber, <https://github.com/dainis-bumber>