Nick **Asendorf**

DATA SCIENTIST · SOFTWARE MANAGER

St. Paul, MN

443-605-3018 | nick.asendorf@gmail.com | asendorf.github.io | asendorf | asendorf

Summary

Current Site Reliability Engineer at start-up company Kasa. 7+ years experience specializing in the backend development, infrastructure automation, and computer hacking/security. Super nerd who loves Vim, Linux and OS X and enjoys to customize all of the development environment. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Education

University of Michigan *Ann Arbor, MI*
Ph.D. and M.S. in Electrical Engineering: Systems *Aug 2010 - May 2015*
- GPA: 4.0/4.0
- Advisor: Prof. Raj Rao Nadakuditi
- Dissertation: "Informative Data Fusion: Beyond Canonical Correlation Analysis" Link to pdf

University of Maryland *College Park, MD*
B.S. in Computer Engineering *Aug 2006 - May 2010*
- GPA: 4.0/4.0, Gemstone Honors Program, Eta Kappa Nu

Industry Experience

3M Company, Corporate Research Systems Lab *Maplewood, MN*
Software Research Manager *Feb 2019 - Present*
- blah

Data Scientist *Aug 2015 - Jan 2019*
- blah

R&D Intern *Summer 2014*
- blah

AAI Corporation, Textron subsidiary *Hunt Valley, MD*
Software Engineering Intern *Summers 2007, 2008, Winter 2009*
- blah

Academic Experience

University of Michigan *Ann Arbor, MI*
Graduate Student Research Assistant *Aug 2010 - May 2015*
- Ph.D. research included multi-modal data fusion, correlation analysis, random matrix theory, data driven algorithms for machine learning and statistical signal processing applications, and detection theory.

University of Maryland *College Park, MD*
Undergraduate Research Intern *June 2009 - May 2010*
- Designed and performed auditory MEG experiments exploring neural responses to low-frequency auditory stimuli. Developed noise reduction algorithms for time-frequency analysis of MEG data

Honors & Awards

2018	**Individual CTE&I**, 3M Corporate Research System Lab
2017	**Team CTE&I**, 3M Health Care Business Group
2017	**Individual CTE&I**, 3M Corporate Research System Lab
2014	**Awardee**, Richard and Eleanor Towner Distinguished Academic Achievement Prize
2013	**Finalist**, Qualcomm Innovation Fellowship
2013	**Best Poster Award**, University of Michigan Engineering Graduate Symposium
2012	**Best Poster Award**, University of Michigan Engineering Graduate Symposium
2010	**Awardee**, University of Michigan Rackham Merit Fellowship

Selected Publications

2017	**IEEE Transactions on Information Theory,** Improved Detection of Correlated Signals in Low-Rank-Plus-Noise Type Data Sets Using Informative Canonical Correlation Analysis (ICCA) Link to publication
2013	**IEEE Transactions on Signal Processing,** The Performance of a Matched Subspace Detector That Uses Subspaces Estimated From Finite, Noisy, Training Data Link to publication

Skills

DevOps	AWS, Docker, Kubernetes, Rancher, Vagrant, Packer, Terraform, Jenkins, CircleCI
Back-end	Koa, Express, Django, REST API
Front-end	Hugo, Redux, React, HTML5, LESS, SASS
Programming	Node.js, Python, JAVA, OCaml, LaTeX
Languages	Korean, English, Japanese

Service

University of Maryland Gemstone Alumni Mentor & Partner Program

MENTOR   *2019-present*

Minnesota State Science Fair

JUDGE   *2015-present*

Totino Grace High School Engineering Program

MENTOR   *2015-2019*

Michigan ECE Graduate Student Council

MEMBER   *2010-2014*

- President 2012-2014

Michigan Student Signal Processing Seminar Series

ORGANIZER   *2011-2014*