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Mihai Avram

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## Objective

Seeking an opportunity that partakes in the research and/or development of solutions to Social Problems using Computing.

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## Relevant Education

University of Illinois in Urbana-Champaign, IL **Current**  
Ph.D. in Information Sciences

Indiana University in Bloomington, IN **May 2018**  
Master of Science in Computer Science, GPA: 3.84/4.00

Purdue University in West Lafayette, IN **May 2014**  
Bachelor of Science in Mathematics, GPA: 3.20/4.00  
Minors in Statistics, Sociology, and Management

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## Research Experience

University of Illinois: Urbana-Champaign, IL **Summer 2018 - Current**

- Developing methodology and applied experimentation with Adversarial Learning on Social Networks
- Mining for patterns in how people interact with misinformation on social media feeds using **Fakey**

Indiana University: Bloomington, IN **Fall 2016 - Summer 2018**

- Completed my Master's Thesis funded by the Democracy Fund which involves the study and prevention of misinformation in social media by creating, using, and improving tools such as Hoaxy, OSoMe, Botometer, and a media literacy game called Fakey - <https://fakey.iuni.iu.edu/>
- Published "**HarpLDA+: Optimizing Latent Dirichlet Allocation for Parallel Efficiency**" (IEEE Big Data 2017) and "**Finding and counting tree-like subgraphs using MapReduce**" (IEEE TMSCS 2017) under professor Judy Qiu in the summer of 2017
- Created a Machine Learning MOOC under Professor Ying Ding for the IU Data Science On-Ramp Program in the summer of 2017
- Fact Checking: Awarded 5<sup>th</sup> place in the 2017 WSDM Cup and published paper "**RelSifter: Scoring Triples from Type-like Relations**"
- Assisted in research discussions, manual data annotation, and building algorithm comparison as well as feature extraction tools using Python
- Presented relevant research to peers and collaborators
- Served as a Web Administrator for the IU Complex Networks and Systems website

University of Michigan: Ann Arbor, Michigan **Summer 2013**

- Learned and implemented the Radiative Transport Equation (RTE) in three dimensions
- Created a Java applet to extrapolate the intensity of light in random media using the RTE
- Wrote a report in LaTeX explaining the RTE theory and how to use the Java applet

Discovery Park Undergraduate Research Internship Program:  
Purdue University, West Lafayette, IN

**Spring 2013**

- Analyzed journal articles and gleaned information to decide what statistical methods to use
  - Cleaned and mined data using Python. Also ran analysis in R to discern our research results - i.e. Civilians killed due to IDEs
  - Published a Journal Article: "**Civilian Deaths and the Iraq War: Who is Responsible?**" in the Journal of Purdue Undergraduate Research
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## Work Experience

Avanade Consulting: Chicago, IL

**Summer 2014 - Summer 2016**

- Honed Web Design skills by creating the job board for Echo Global Logistics - <http://echo.com/careers/open-positions.html>
- Took part in full application life-cycle (Requirements gathering, Application Development, Test Development Change, Deployment of Change, Support previous Deployments) as part of the Production Support team
- Learned an array of Microsoft technologies applicable to back-end data storage and data manipulation (SQL Server), middleware logic for large-scale Mortgage Banking applications (C#, PowerShell, Automation), front-end UI experience (HTML, JavaScript, CSS), as well as version control using Visual Studio Team Foundation Server
- Presented various technologies and projects to business users, communicated closely with clients, and assisted in "Live" Production critical failures bi-monthly
- Acquired a general idea of the full-stack development toolkit: Web Design, Application Design, UI/UX, Testing, Version Control, Analytics, Big Data, Reporting, Machine Learning, Data Mining, and Cloud

## Leadership Experience

Indiana University: As a student/researcher in Bloomington, IN

**Fall 2016 - Present**

- Assisted undergraduates and fellow researchers with various problems regarding system/software configurations, problem formulations, research methods, and programming tips
- Coordinated and led/co-led meetings with regards to research projects or class projects

Avande Consulting: As a senior solutions developer in Chicago, IL

**2014-2016**

- Led and co-led meetings regarding production support tasks essentially co-ordinating and assigning tasks to offshore team members
- Briefly mentored incoming analysts with system/software configurations and programming tips

EPICS: (Engineering Projects in Community Service) at Purdue University, West Lafayette, IN

**2010-2013**

- Presented product prototype to stakeholders and collaborators, taking part in the decision-making process
- Coordinated meetings to discuss progress, issues, and goals. Constructed decision matrices, tested prototypes, and delivered final project to the client

## Volunteer Experience

Pro-Truth Pledge and Movement, Zooniverse, Outreach for NetSci 2017 conference, Aspire Foundation, Misericordia Heart of Mercy, Greater Chicago Food Repository, Habitat for Humanity, Run For Cause

## Relevant Skills

Web Deveopment:	★★★★★	Machine Learning:	★★★★★
Mobile Development:	★★★★★	Data Mining:	★★★★★
Python:	★★★★★	Network Science:	★★★★★
SQL:	★★★★★	NLP:	★★★★★
Full Stack:	★★★★★	Deep Learning:	★★★★★
Vue:	★★★★★	Hadoop:	★★★★★
Django:	★★★★★	Cloud/Distributed Computing:	★★★★★
LaTeX:	★★★★★	Algorithms:	★★★★★
Git:	★★★★★	R:	★★★★★
Linux OS/Linux Bash:	★★★★★	Java:	★★★★★
C/C++:	★★★★★	Microsoft Office:	★★★★★