

Jonathan Vance
PhD Candidate, Computer Science
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OVERVIEW

- PhD ABD, Computer Science, UGA expected graduation August 2022
- Research Area: AI/Machine Learning in Precision Agriculture, Deep Learning, Time Series Forecasting
- 10+ years software engineering
- 20+ years web development and consulting
- Programming Specialties: Python, Pytorch, Neural Nets, ML models, Cloud, Java/J2EE, Mobile, Full Stack

PROFESSIONAL HISTORY

University of Georgia Computer Science Department, January 2022 to May 2022

Instructor of Record – Topics in Computing

University of Georgia Computer Science Department, January 2019 to January 2022

Teaching Assistant – Computing, Ethics, & Society

University of Georgia Computer Science Department, May 2021 to August 2021

Instructor of Record – Foundations for Informatics and Data Analytics

University of Georgia College of Engineering, August 2019 to August 2020

Research Assistant

- Mobile app development for iPhone, Android, etc.
- Geolocation data clustering & mapping research and implementation
- Image classification with convolutional neural networks (CNNs), machine learning techniques
- AWS, Google Cloud deployment & administration
- Fortune 500 Sponsors, United Nations consulting

University of Georgia College of Veterinary Medicine, July 2017 to December 2018

Application Analyst Specialist

- J2EE software used at universities throughout the U.S.
- Java, Groovy, Oracle, HTML, CSS, Agile, Git, full stack development

University of Georgia Terry College of Business, October 2014 to July 2017

Application Analyst Associate

- Developed, maintained Terry Course Evaluation, Personnel Directory, and Course Directory
- Developed applications to support college, e.g.: web-services based synchronization, mail merge, etc.
- Python, C# .NET, SQL Server, Web Services, Git, Javascript

DigitasLBi, June 2014 to August 2014

Software Engineer

- C# .NET, HP Teamsite CMS, XML, SQL Server, HTML, CSS, JavaScript, Bootstrap
- Enterprise Level software development for fortune 500 bank SunTrust.com, desktop and mobile, with international Agile team of approximately 20

Tech Safari, March 2012 to June 2014

Senior Java/J2EE Developer

- Java/J2EE, Oracle, SOAP web services, Eclipse
- Team Lead, Enterprise web application full stack development for fortune 500 company CenturyLink, 3rd largest telecommunications company in U.S.

Jonathan Vance Multimedia Development, Ongoing

- Development and consulting for private clients including:
 - Edward Vance Financial – Accounting Scripts (2020, 2021), vanceinvestments.com (2010)
 - RL Edmondson Vance (artist) – RebeccaEdmondson.com (2020 - 2021)
 - Bond Creative Group - Responsive UI for mobile, Bootstrap, Expression Engine CMS (2014)
 - China Hydroelectric - Liferay CMS (2010)
 - University of Georgia School of Ecology - Coweeta Interactive Mapping System - LAMP, JQuery (2009)

SAI Global/Compliance 360, November 2011 to February 2012

Software Engineer

- C#.NET Enterprise web application full stack development for industry leading healthcare governance SAAS system

RMCI Inc., May 2010 to November 2011

.NET Developer

- VB.Net, Enterprise web application full stack development for USAJOBS.gov, 5 million+ users
- Promoted from Junior Developer to Developer within first few months; received official recognition from top leadership
- Scrum Alliance Certified Scrum Master Certification

PUBLICATIONS

- Author "Alfalfa Biomass Yield Prediction Using Machine Learning" – Conference Poster, *Phenomix and Plant Robotics Center Symposium*, Sept. 2021
- Author, IN PRESS, "Comparing Machine Learning Techniques for Alfalfa Biomass Yield Prediction." *Transactions on Computational Science and Computational Intelligence*, (2021).
- Co-author, "Using Machine Learning and Feature Selection for Alfalfa Yield Prediction." *AI 2*, no. 1 (2021): 71-88.
- Author, "Image Recognition And the Marine Debris Tracker App" – Conference Poster, *Advancing Informatics in Government and Industry*, Nov. 2019

EDUCATION

- PhD ABD/Candidate, Computer Science, University of Georgia, expected graduation August 2022
- BS, Computer Science, University of Georgia, 2009