

# Fred Buhl

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## Summary

Experienced IT practitioner currently pursuing a Ph.D. in Computer Science at the University of Florida, focusing on Natural Language Processing (NLP) and Affective Computing; working on multi-modal conversational agents, incorporating audio, visual, & textual input, commonsense reasoning, and language models to improve dialogue quality.

## Skills

- Languages: Python, C, C++, SQL, PHP, JavaScript
- Python ML Libraries: Tensorflow, PyTorch
- Cloud Services: AWS Polly, Google Cloud Speech
- Other: End-to-end troubleshooting, project management, documentation

## Education

2017-2022*	<b>University of Florida</b> , Gainesville, FL Ph.D., Computer Science Natural Language Processing, Machine Learning, Affective Computing, Multimodal Conversational AI, Commonsense reasoning <i>*expected completion date</i>	Advisor: Anand Rangarajan
2017	<b>Coursera</b> , <a href="http://coursera.org">http://coursera.org</a> Machine Learning by Stanford University; certificate earned June 11, 2017 Computational Neuroscience by University of Washington, certificate earned March 12, 2017	
1994	<b>University of Florida</b> , Gainesville, FL M.S., Computer Science	
1986	<b>University of Florida</b> , Gainesville, FL B.S.B.A, Computer Science	

## Employment

1998-2019	<b>Florida State Court System</b> , Eighth Judicial Circuit of Florida Court Technology Officer Managed 12 staff & contractors; developed OpenCourt digital court reporting software, Integrated Case Management System (ICMS) software in use in state courts throughout Florida.
1995-1998	<b>University of Florida</b> , College of Liberal Arts and Sciences Operations Manager, CLASnet Responsible for network operations for the College of Liberal Arts & Sciences.
1987-1995	<b>University of Florida</b> , Animal Science Department Senior Computer Programmer/Analyst Develop CowBase herd management software & documentation used by ranches in Florida and Latin America

## Honors & Awards

- AI Research Catalyst Fund Award from UF Research, providing access to HiPerGator high-performance computing resources, December 2020.
- Agency IT Professional of the Year, State Court System, 2017. Florida Agency for State Technology.  
State of Florida Prudential Productivity Award 2014 & 2017