Aswin Sivaraman

🏠 US Citizen · ✉ *asivara@iu.edu* · 📞 *630-590-3366*
🌐 *www.aswinsivaraman.com* · 🐙 *actuallyaswin* · 💼 *actuallyaswin*

EDUCATION

PhD Intelligent Systems Engineering
Indiana University
Aug 2017—Current

BS Electrical Engineering
University of Illinois at Urbana-Champaign
Aug 2011—May 2015

SKILLS

Programming:
Python, C, C++, MATLAB, Perl

Libraries:
PyTorch, Tensorflow, Keras, Redis, AWS DynamoDB, Alexa Skills Kit

Web:
HTML5, CSS3, JavaScript, Angular, jQuery, Node, Express, RESTful, SQL, NoSQL, MongoDB, PHP, Bootstrap, Foundation, Wordpress

PROJECTS

Mappr
Script which generates a travel summmary video using Matplotlib.

Qualcomm Onboard
Webapp for intelligently pairing interns with best-fit technical teams using similarity metrics between student profiles and project requirements.

Scrobbylr
Script which fingerprints and logs music played on turntable in real-time.

RESEARCH

Signals and AI Group in Engineering (SAIGE)   Aug 2017—Current
Prof. Minje Kim
Experimented with deep learning models for audio signal processing tasks such as speech recognition, speech denoising, audio enhancement, audio compression/coding, and psychoacoustics.

Computational Audio Lab (CAL)   Aug 2014—May 2015
Prof. Paris Smaragdis
Wrote undergraduate thesis evaluating a novel framework for speech recognition utilizing winner-take-all semantic hashes of spectrogram frames.

Statistical Speech Technology Group (SST)   May 2014—Jan 2015
Prof. Mark Hasegawa-Johnson
Performed audio database segmentation using speech recognition and synthesis toolkits for use in an Emotive audio-visual avatar.

EMPLOYMENT

Amazon.com, Inc.   May 2018—Aug 2018
Alexa Automatic Speech Recognition (ASR) — Applied Scientist Intern

Qualcomm, Inc.   Jul 2015—Aug 2017
Diagnostic Services — Embedded Software Engineer

University of Illinois at Urbana-Chamapaign   Jan 2015—May 2015
CS498RK (Art of Web Programming) — Teaching Assistant

Qualcomm, Inc.   May 2014—Aug 2014
Embedded Software Engineering Intern

ViaSat, Inc.   May 2013—Aug 2013
Product Development Engineering Intern

AFFILIATIONS

WIUX-LP (2019—) , IU Cinema (2017—) , Yellow Box (2011—) , ECE Pulse (2012—2015) , IEEE UIUC (2012—2015) , The Canopy Club (2011—2015)

PUBLICATIONS

Full list of publications and pre-prints available on Google Scholar.