Adam Aji

adamajicv [at] gmail [dot] com

Education

University of North Carolina at Chapel Hill
M.S. Computer Science, graduated Aug 2018
B.S. Computer Science, graduated May 2017 with highest distinction
Second major in Linguistics
Senior Thesis: *Alphabet Soup: Learning Knowledge Graphs from Recipes on the Web*

Work Experience

Shopagon
Software Engineer, Computer Vision **Sep 2018 - Jan 2019**

- Experimented on deep models to improve visual clothing representation for retrieval (Python, PyTorch)
- Developed interactive visualizations on model predictions for client demos and internal evaluation

Software Engineer Intern **Jun 2018 - Aug 2018**

- Evaluated models for viewpoint recognition on clothing images (Python, PyTorch)
- Created models for fine grained visual classification within clothing categories

Microsoft
Software Engineer Intern **May 2015 - Aug 2015**

- Worked on text-to-speech capabilities for Microsoft Word on iOS (Obj C, C++)
- Evaluated effectiveness and experience of speech functionality in Word through face-to-face user surveys

Lockheed Martin
College Student Tech (Software Development Intern) **May 2014 - Aug 2014**

- Contributed to 3D browser based game for teaching math and programming concepts (JavaScript)
- Added features including camera motion and Blockly programming environment modifications
- Open source online under github.com/virtual-world-framework/mars-game

Research Experience

University of North Carolina at Chapel Hill, Department of Computer Science
Graduate Research Assistant (Berg Group) **Jul 2017 - Jun 2018**

- Experimented with deep models to align images and text via cycle consistency (Python, Pytorch)
- Created web based collection tool to crowdsource alignment of cooking videos with recipe text

Undergraduate Research Assistant (Berg Group) **Sep 2015 - Jul 2017**

- Created tools to scrape dataset of 7K cooking recipes from the web (Python)
- Constructed knowledge graphs of object-action relationships from recipes through dependency tree analysis
- Experimented on incorporating graphs into deep models for visual classification and recognition

Undergraduate Research Assistant (Pizer Group) **Sep 2014 - May 2017**

- Worked on endoscopic video reconstruction project for discovery of polyps in pharynx and colon
- Created visualization tools for analysis and annotation of medical endoscopic and CT images (Python, VTK)
- Printed 3D models of endoscopies for use in recording ground truth endoscopic video

Fraunhofer Institute for Digital Media Technology
Research Intern (Semantic Music Technologies) **May 2016 - Aug 2016**

- Worked towards methods for vocal and phoneme recognition in singing (Python)
- Generated synthesized singing samples as data augmentation for use in classification models
- Sponsored by the German Academic Exchange Service (DAAD) RISE Scholarship