Aleksander Klibisz

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Education

Bachelor of Science, Computer Science — December 2016
University of Tennessee, Knoxville, TN (UTK)
Summa Cum Laude, 3.8 GPA

Experience

Imaging, Signals, and Machine Learning Group — January - August 2017
Oak Ridge National Laboratory (ORNL) — Research Assistant

- Used deep learning techniques to identify neurons and action-potentials in calcium imaging data to accelerate neurobiological research.

Neuromorphic Computing Research Group — Fall 2015, Summer - Fall 2016
UTK Electrical Engineering and Computer Science Department — Research Assistant

- Developed simulated navigation applications to demonstrate the neuromorphic platform.
- Researched algorithmic improvements to accelerate neuromorphic network training.

StudyLoop Web and Mobile Application — June 2015 - March 2016
Knoxville, TN — Co-Founder, Software Engineer

- Developed the StudyLoop web application and all server-side services.
- Collaborated with two iOS developers to release web and iOS applications.

Cadre5, LLC — Spring 2014, Summer 2015
Knoxville, TN — Software Engineering Intern

- Developed features for two customer web applications on client, server, and database levels.

Georg-August University — Summer 2014
Göttingen, Germany — Software Engineering Intern

- Developed an automated user interface testing suite for an application used for exam scheduling.

Duracell Packing and Manufacturing Plant — Summer 2012, Summer 2013
Cleveland, TN — Software Engineering Intern

- Contributed to internal web applications for emergency response and safety audits.

Professional Skills

- Programming languages: Python, Javascript, C++, Matlab, HTML/CSS, C, SQL, Java.
- Libraries and tools: Keras, Scikit-learn, Pandas, Numpy, Gensim, igraph, MPI, OpenMP.
- Infrastructure: Docker, Jenkins CI, AWS EC2, AWS Elastic Beanstalk, AWS Lambda.
- Source control: Git, Subversion.

Recent Publications

- **A. Klibisz**, D. Rose, M. Eicholtz, J. Blundon, and S. Zakharenko. Fast, Simple Calcium Imaging Segmentation with Fully Convolutional Networks. Forthcoming, 3rd Workshop on Deep Learning in Medical Image Analysis, September 2017.
- **A. Klibisz**, G. Bruer, C. D. Schuman, and J. S. Plank. Structure-based Fitness Prediction for the Variable-structure DANNA Neuromorphic Architecture. In *International Joint Conference on Neural Networks*, Anchorage, May 2017.

Honors

- Selected for the Knoxville Entrepreneur Center "CodeWorks" startup accelerator program, Sept. - Dec. 2015.
- UTK Chancellor's Honors Program, 2012 - 2016.
- UTK Dean's List, 2012 - 2016.