ADWIN JAHN

Software Developer

Portfolio

- Winner of AT&T IoT Seattle Hackathon July 2016
- 5 year+ programming experience including C/C++, Java, Javascript, nodeJS, HTML/CSS, Python
- Broad research experience including machine learning, computer vision, NLP, data visualization
- US citizen
- Github : https://github.com/adwin5 | Linkedin : https://www.linkedin.com/in/adwin-j/en

Work History

2016-09 - 2016-12

Teaching Assistant

Computer Science & Engineering at University of Washington

Teach CSE373 Data Structure and Algorithm and Java programming.

2016-06 - 2017-06

Machine Learning Research Collaborator

AI/ML/NLP Lab at University of Washington

Built lipreading application by Convolutional Neural Network using Python, Tensorflow and Keras.

Demo video: https://youtu.be/3FpEljYFAi4

2016-01 - 2016-03

Iot Full Stack Software Programmer

SIVANN. INC

Developed IOT Zigbee node.js API Library and implement Monitor-and-Test command to control TI-2530 chip for IOT application.

Demo video: https://youtu.be/XR0Q8ULU49I

Education

2016/03 - 2017/06

M.S in Electrical Engineering

UNIVERSITY OF WASHINGTON

Related course work : Data visualization, DSP, AI Engineering, Machine Learning Research Projects

2012/09 - 2016/01

B.S in Electrical and Computer Engineering

NATIONAL CHIAO TUNG UNIVERSITY, Taiwan

Related course work : Machine Learning, Statistical Learning, Computer Vision, HCI, Virtual and Augmented Reality

Skills

Programming

- Javascript, HTML, CSS, node.JS, d3.js for web development (1 year)
- Android and IOS for App development (1 year)
- JAVA, C/C++ (3 years)
- Python, Tensorflow, Keras, Torch (6 months)

Machine Learning/ Vision/ NLP

- Deep neural network including RNN, LSTM, CNN learning for face detection, visual understanding, video processing, language model. Implementation library are Torch, Tensorflow or Keras with Lua and Python as language.

Data Visualization

- Developed visualization for government issued data and help users to efficiently and effectively acquire the information they need. For example, how the Washington state spend money and where the money goes. (use D3.js) LINK : https://cse512-16s.github.io/a3-iwsmith-lilizeng99-adwin5/
- Interactive Learning for Hierarchy of Concepts. (use D3.js) LINK : http://cse512-16s.github.io/fp-adwin5-wmontgomery4-ryanmaas/

Internet of Things

- Winner of AT&T IoT Seattle Hackathon July 2016.
- First round winners of MediaTek Wearable Computing Device&IOT competition Aug 2014.

Leadership

- Youth College Elite of 2016
- President of Hsinchu Area Alumni Association (2013 -2014)

Award

Winner of AT&T IoT Seattle Hackathon July 2016 (Hosted by AT&T Developer Program)

Our team is Robosample and the goal is to replace manpower, reduces costs and increases accuracy for activities like HVAC installation surveys, retail and warehouse inventory auditing and visual quality assurance.

We integrate speech recognition and natural language processing Interface(by Nuance tech), Temperature sensor - Cloud(by Particle), Segway MiniPRO, 360 degree camera to build voice control end-to-end movable device to collect data {visual 360 degree pictures, temperature} indoor and outdoor. In demo video, we show "go forward" and "turn around", two commands for speech recognition. In future, our project could extend to installation of more sensors for specific task.

News link: http://www.surfincubator.com/blog/att-hackathon-july/
Demo video: https://www.youtube.com/watch?v=XusACzrl1uQ