Yali Bian | Résumé

📱 +1-540-998-0256 • ✉ yali@vt.edu • 🌐 www.yalibian.com

860 Plantation Rd, Apt. 106, VA 24060

Objective

To obtain a software/web development or data analytics position.

Education Background

- **M.S. in Computer Science, Virginia Tech, Blacksburg, VA** (GPA: 4.00/4.00)   Aug. 2016 – Dec. 2018
- **M.S. in Computer Science, Zhejiang University, China** (GPA: 3.78/4.00)   Sep. 2013 – Mar. 2016
- **B.Eng. in Computer Science, Harbin Institute of Technology, China** (GPA: 88.40/100)   Sep. 2009 – Jun. 2013

Work Experience

NOKIA Bell Labs   Jun. 2017 – Aug. 2017

Summer Intern, NJ | Data Science Research

- Developed an interactive machine learning model for detecting anomalies from millions of time-series Telecom data.
- Design a time-series visualization application for the big dataset to render and explore huge amount of time points in real-time.
- Technologies used: Python Flask/Scikit-Learn, D3.JS, React.JS, Interactive Machine Learning, Active Learning

Chinese Knowledge Centre for Engineering Science and Technology (CKCEST)   Dec. 2014 – Dec. 2016

Student Software Engineer | M.S. Student at Zhejiang University, China

- Developed a knowledge-based visual text analytics system for documents topics and evolution extraction.
- Designed and developed a life story visualization website: combining a geographic map with timelines to indicate personal experience (employment, locations, personal events, etc.)
- Technologies used: Python, Socket.IO, Racket, JavaScript, HTML5, D3.JS, Topic Modeling, Python NLTK, Standford NLP.

China Academic Digital Associative Library (CADAL)   Jul. 2013 – Dec. 2014

Student Software Engineer | M.S. Student at Zhejiang University, China

- Co-developed the website "Database & statistical diagram of Chinese Chronicle": 140 million words information about all the Chinese writers and their articles, relationships and locations from 1046 BC to 2000 DC.
- Developed the Calligraphy Website, responsible for the reformatting and rendering of fonts with new calligraphy designs.
- Technologies used: Java, MySQL, JavaScript/HTML/CSS, D3.JS.

Research Experience

Visual Analytics on Deep Neural Network   Aug. 2017 – Present

Research Assistant | Ph.D. Student at Virginia Tech

- Design a method that mapping visual interacts into embedded vectors through deep learning techniques
- Implement an image & document recommendation system based on users interactions with transfer learning through CNN, RNN, and Word2Vec.
- Technologies used: PyTorch, Scikit-Learn, NTLK, Gensim, D3.JS, React.JS, Webpack.JS, Crowd-Sourcing, MTurk.

Visual Analytics on Knowledge based Text Mining   Jul. 2013 – Mar. 2015

Research Assistant | M.S. Student at Zhejiang University

- Worked on the combination of visual analytics and topic mining methods (topic modeling, LDA)
- Published three papers on how visualization and text analytics techniques could help explore a large collection of documents:
  · CKGHV: A comprehensive knowledge graph for history visualization. *Joint Conference on Digital Libraries*
  · Discovering Treatment Pattern in Traditional Chinese Medicine Clinical Cases by Exploiting Supervised Topic Model and Domain Knowledge. *Journal of Biomedical Informatics*
  · Concept over time: the combination of probabilistic topic model with wikipedia knowledge. *Expert Systems with Applications*
- Technologies used: NLTK, Topic Modeling, LDA, D3.JS, JavaScript, Python

Skills

- **Programming Languages:**   JavaScript/Node.JS, Python, Java, C/C++, Processing
- **Data Analytical Toolkits:**   PyTorch, Scikit-Learn, NLTK; Pandas, Matplotlib, SciPy, NumPy
- **Web Development:**   Spring, Flask, Express.JS, Koa.JS; React.JS, D3.JS, HTML5/CSS; MySQL, MongoDB
- **Virtual Environment:** CAVE, ParaView, FreeVR, Unity3D, Instant-Player, X3D
- **Other:**   Bash, GCC, Make, Vim, Unix/Linux, Lisp/Scheme, AWS, Apache/Tomcat/XAMPP, Git, LaTeX