FULING SUN

Data Visualization / Human-Computer Interaction

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EDUCATION

Tongji University   *09. 2019 – 06. 2022 (expected)*

Master in Data Visaulization

Advisor: Prof. Nan Cao, Dr. Qing Chen

University of Electronic Science and Technology of China   *09. 2015 – 07. 2019*

Bachelor in Software Engineering

Top 1 in major, National Scholarship 2017, 2018

PUBLICATIONS

VizLinter: A Linter and Fixer Framework for Data Visualization   *VIS 2021*

Qing Chen, **Fuling Sun**, Xinyue Xu, Zui Chen, Jiazhe Wang, Nan Cao   Link 🔗

AutoClips: An Automatic Approach to Video Generation from Data Facts   *EuroVis 2021*

Danqing Shi, **Fuling Sun**, Xinyue Xu, Xingyu Lan, David Gotz, Nan Cao   Link 🔗

Vinci: An Intelligent Graphic Design System for Generating Advertising Posters   *CHI 2021*

Shunan Guo, Zhuochen Jin, **Fuling Sun**, Jingwen Li, Zhaorui Li, Yang Shi, Nan Cao   Link 🔗

Calliope: Automatic Visual Data Story Generation from a Spreadsheet   *VIS 2020*

Danqing Shi, Xinyue Xu, **Fuling Sun**, Yang Shi, Nan Cao   Link 🔗

EXPERIENCE

Intelligent Big Data Visualization Lab (iDVx Lab) *Lab Member*   *09. 2019 – Present*

- Designed and implemented visualization techniques and algorithms to assist users to build visualizations (VizLinter) and tell stories with visualizations (Calliope, AutoClips).
- Participated in over 8 R&D projects with front-end development and back-end services and published 4 top-tier conference papers.

Ant Group *Front-end Engineer (intern)*   *07. 2021 – 09. 2021*

- Refactored the open-source automatic visualization recommendation project, Chart-Advisor and developed new features including customization of charts and design rules.
- Designed antv-spec, a declarative grammar that supports various technology stacks of AntV, currently supporting statistical charts and graph definition.
- Implemented Chart Linter in the internal Business Intelligence tool to assist analysts in building visualization effectively.

SAP Global Cloud Service Center *DevOps Engineer (intern)*   *01. 2018 – 07. 2018*

- Participated in the ChatOps(chatbot with DevOps) project, to shorten the developing and the operating work flow of engineers and enable monitoring of DevOps tools in chat clients such as Slack.

SELECTED AWARDS

Kwang-Hua Scholarship: Tongji University, 2021

National Scholarship: 2018, 2017

Best Poster Honorable Mention: ChinaVis, 2021

Meritorious Award of MCM/ICM: 2018

Best Poster: CCF GAMES, 2021

People's First Class Scholarship: UESTC, 2016

Excellent Graduate: UESTC, 2019

SELECTED PROJECTS

vega-lite-linter - A linting and fixing tool for visualization 🔗 *01. 2021 – 04. 2021*

- A framework to detect violated rules of visualization in Vega-Lite syntax and suggest solutions.
- Designed algorithms to detect violated rules and suggest optimal solutions.

Calliope - An intelligent data story platform 🔗 *01. 2020 – 09. 2020*

- An intelligent data auto-insight platform for creating, editing, and sharing visual data stories.
- Developed static visualization and its animation; developed two visual story layouts(storyline, fact-sheet) and corresponding interactions.

Data Video - A online data video editor 🔗 *09. 2019 – 12. 2019*

- An online tool for creating data videos with charts, illustration, text editing and video export.
- Developed static visualization and corresponding animation design, and implemented the video export function.

Vinci - An Intelligent Graphic Design System for Product Posters *12. 2018 – 03. 2019*

- A system automatically generate a series of product posters with a product picture and descriptions.
- Developed algorithms for automated text layout and accessible font-color adaptation in the posters.

Others

- **Ecological Balance Simulator** 🔗 *05. 2020*
  An interactive project simulating human behaviors' effect on the ecosystem with interaction and visualization.

- **How Do We Leak Personal Privacy?** 🔗 *12. 2019*
  A data story summarizing the ways that user privacy got leaked by phones and their potential hazards.

SKILLS

Languages: Python, JavaScript/TypeScript, HTML, CSS

Tools: D3.js, Node, React, MongoDB, LaTeX