DAVID YUNXIN ZHANG

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 yx-z ⋄ in david-y-zhang

EDUCATION

University of Illinois at Urbana-Champaign   Aug 2015 - May 2019

· B.S. in Mathematics and Computer Science   Overall GPA: 4.00/4.00
· Minor in Statistics

WORK

EnterpriseWorks Incubator — Research Park   May 2017 - Present
Web Developer   *Champaign, IL*

· maintained **Salesforce** database, analyzed user data and constructed web apps in **Visualforce** and **Apex**
· developed and deployed over 10 websites for startup companies with **jQuery** and **WordPress** Framework

Cyber Physical Systems Integration Lab   Jan 2017 - Present
Research Assistant   *Champaign, IL*

· reduced boot time for a *Heart Transplantation System* in **Java Swing** by optimizing caching mechanism
· performed GUI tests with **Ranorex** automation and wrote detailed documentation in **codeBeamer**

Socio-Technical Risk Analysis Lab   Jan 2017 - May 2017
Research Assistant   *Champaign, IL*

· implemented a *Fault Tree* evaluation module with **boolean algebra** support and probability calculation
· built a *Probabilistic Risk Analysis* software with **JavaFx** GUI framework and **JFoenix** Material Design library

EXPERIENCE

Weather Forecast Analysis   Sep 2016 - Apr 2017

· collected 10 GB of daily weather data automatically in Python and Shell Script with **Cron** for 4000 locations
· built climatology, persistence, multiple linear regression and other **statistical models** in R
· created interactive maps with Google **Fusion Tables** for data visualization
· presented at *Joint Math Meeting*, and was awarded with **Outstanding Poster**(top 15% of 300 projects)

The Mathematical Contest in Modeling   Jan 2017

· built traffic models for autonomous cars to improve safety and efficiency
· visualized 200 thousand lines of traffic data with **heatmap.js** and **JHeatChart**
· won **Honorable Mention**(top 20% of all participants)

Cornfield Coders Group   Feb 2017 - Present

· **founding member** of the Registered Student Organization
· aim at taking projects from companies and clients within UIUC and **leading** students to work on them
· visualized the **geological data** in 2D with **d3.js** and in 3D with **plotly.js**

SKILLS

Programming

· Java 8(Functional Programming and Stream API), Android, Kotlin, HTML/CSS/Js, R, C++, Python, MySQL

Tools

· Vim, Git, IntelliJ IDEA(JetBrains Platform IDE), Zsh, Photoshop, Markdown, LaTeX