Zizhou Sang

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EDUCATION

University of Illinois at Urbana-Champaign *Champaign, IL*
Master of Science in Information Management *Sep 2019 – Present*
- Overall GPA: 3.88 (All 4.0 for 7 high quality courses, A^- and B^+ for two other required non-tech courses)

Nanjing University *Nanjing, China*
Bachelor of Economics in Financial Engineering *Sep 2016 – Jun 2019*
- GPA: Overall: 4.30/5.00 | Major: 4.38/5.00 | Senior Major: 4.75/5.00 *(top ranked)*
- Transferred from Urban Planning as a junior in 2016, completed most courses in two years with *FE 18'*. Did course projects single-handedly and received exceptional remarks from professors in all senior-level courses.

EXPERIENCES

Amino Capital *Palo Alto, CA*
Advised by Dr.Sue Xu (Managing Partner, Stanford PostDoc) *May 2020 – Sep 2020*
- Self-learned basic Flutter-Firebase development framework from Youtube, then independently implemented a slightly simplified version of company's current CRM system (in form of web app) in less than two weeks.
- Performed due diligence research and responsible for creatively solving assorted problems, including web crawler of TikTok likes data, proposed ideas the building of fan group etc. Solved all tasks efficiently in high quality and often commended by founding partner Mr. Larry Li and Dr. Sue Xu in various aspects.

RESEARCHES & PROJECTS

Various Course Projects *Champaign, IL*
Separately Advised by Mr.John Weible, Prof.Yoo-Seong Song, and Prof.Yang Wang *Mar 2020 – Dec 2020*
- **King Othello AI with Graphical User Interface**: An original variation of Othello with King pieces added, the AI is based on minimax and GUI is implemented via PyQt5. [*Code*] [*Slides*] [*Video*]
- *Age of Empires II* **resource gathering simulator**: An original analysis of *AoE II*'s optimal villager allocation strategy implemented via event priority queue with convincing real-world results. [*Code*] [*Slides*] [*Video*]
- **Research in Ad Fraud with BIG Consulting Group**: Worked as a consulting team and conducted in-depth research of ad fraud detection vendors, teamwork amazed the client and Prof. Song yet my part often shone.
- **Kaggle House Price Prediction: Advanced Regression Techniques:** Explored various machine learning and feature engineering methods with ranking top 24.9% on leaderboard. Works commended by Prof.Wang.

Solidity in a Turbulent Flow: SNA of Aristocratic Families in the Eastern Jin Dynasty *Champaign, IL*
Co-authored with Dr.Wenyi Shang (UIUC PhD Student) *Apr 2020 – May 2020*
- Performed social network analysis and mainly responsible for coding in our original research of *Shishuo Xinyu*.
- Paper is accepted by the *Journal of Historical Network Research* and now working on the editor's reviews.

Routing Optimization for High Speed Photon State-Channel Architecture *Nanjing, China*
Advised by Prof.Xiaowei Ding (Stanford PhD) and Dr.Peter Yan (WUSTL PhD) *Jul 2018 – Oct 2018*
- Attempted to improve the off-chain transfer throughput of Photon network in blockchain project SmartMesh.
- Simulated Photon network on Matlab, applied fmincon for optimization, served as bilingual coordinator.
- Paper submitted to *China Computer Federation National Conference on Blockchain Technologies (CCF NCBT) 2018*.

Accumulator Pricing *Nanjing, China*
Advised by Prof.Xuewei Yang (Joint UIUC PhD, author of two JFE papers) *Sep 2017 – Oct 2017*
- Studied a theoretical paper, implemented accumulator pricing in both analytical and Monte Carlo method.
- Single work done in seven days by Matlab first-timer. Works exceeded Prof.Yang's expectation by receiving *'Few of you could have done this, even if you were provided with the formulae'* public remark during presentation.

COURSES & LANGUAGES

- **Standardized Test Score**: TOEFL 106 *(Speaking 27)* , GRE 333 • **Software:** Photoshop, Premiere, Lightroom
- **Programming Languages**: Python, R, Matlab, Dart, Javascript, HTML, SQL, C++, Java, SAS, bash, LaTeX
- **Computer Science**: Data Mining, Methods for Data Science, Algorithm Design and Analysis *(Coursera)*
- **Statistics**: Probability and Statistics, Machine Learning *(Coursera)* , Financial Econometrics