

Kaiwei (Kevin) Wang

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Education

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| Master of Computer Science, University of Illinois at Urbana-Champaign | <i>Jan '15 – May '16 (expected)</i> |
| Courses: Web Programming, Operating System, Communication Networks, Database, Distributed System, Machine Learning, etc | |
| Master of Mathematics, University of Oxford, UK | <i>Oct '10 – Aug '13</i> |
| Research on portfolio selection | |
| Master of Probability & Statistics, University of Chinese Academy of Sciences | <i>Sep '08 – Jun '10</i> |
| Probability Theory, Mathematical Statistics, Stochastic Analysis, etc | |
| Bachelor of Applied Mathematics, China Agricultural University | <i>Sep '04 – Jun '08</i> |
| Mathematical Modeling, Linear Algebra, etc | |
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Work Experience

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| Web developer for National University Rail Center, Urbana, IL | <i>Feb '15 – present</i> |
| <ul style="list-style-type: none">• Update and maintain the official website http://www.nurailcenter.org• Use JavaScript to implement web features | |
| Research assistant of Oxford-Man Institute of Quantitative Finance, Oxford, UK | <i>Oct '10 – May '12</i> |
| <ul style="list-style-type: none">• Studied portfolio selection models following human behavioral criteria• One paper accepted by 7th Bachelier Finance Society World Congress 2012 at Sydney, Australia | |
| Teaching assistant of Mathematical Institute, University of Oxford | <i>Jan – May '12, '13</i> |
| <ul style="list-style-type: none">• Grader and Tutor for <i>Mathematical Models of Financial Derivatives</i> and <i>Stochastic Control & Asset Allocation</i>• Effectively communicated with both undergrad and grad students | |
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Projects

- Course Mouse** <http://coursemouse.herokuapp.com>
- Help to search online courses with prerequisite course recommendation
 - Used Java to crawl data, Elasticsearch to do indexing; Angular.js for the UI and connecting the backend
 - Code: <https://github.com/fieldsfarmer/coursemouse>
- Artist Finder** <http://artist-finder.herokuapp.com>
- Help to search for music artists, focused on social network connections
 - Used Express (a web framework of Node.js) to write the API of MongoDB database; Angular.js for the UI and connecting the backend
 - Code: <https://github.com/fieldsfarmer/artistfinder-web>
- Pseudo TCP by UDP**
- Used socket programming with C/C++ on UDP to implement TCP features including reliable transmission, FIFO delivery, congestion control and flow control
 - Ensured high performance and compatibility with real TCP
- Link-State Routing Implementation**
- Simulated each router node as process and periodically flooded the network with local information
 - Computed shortest paths by Dijkstra algorithm
 - Ensured fast recover in case of node failure
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Tech Skills

Programming languages with Experience: Java, JavaScript (Angular.js, Node.js), Python, C/C++

Operating systems: Linux, Mac OS

Awards

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| Scholarship of Oxford-Man Institute of Quantitative Finance, University of Oxford | <i>2010 - 2013</i> |
| National Undergraduate Scholarship of China | <i>2005, 2007</i> |