# Ruian Li

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## EDUCATION

**Vanderbilt University**
**GPA: 3.8 / 4.0**                                                                                                                        **Nashville, TN**
*Bachelor of Science in Computer Science and Applied Mathematics*                                          Expected May 2021
**Coursework:** Algorithms and Data Structures; Intermediate Software Design; Computer Organization; Data Visualization
**Honors:** American Invitational Math Exam (AIME) Qualifier; American Mathematics Competition 12 Honor of Distinction (top 1% worldwide); Sigma Alpha Pi National Society of Leadership and Success
**Languages / Technologies:** Java, C++, JavaScript, HTML5, CSS, MySQL, MongoDB, Microsoft SQL Server, Spring, React, NodeJS, jQuery, qooxdoo, JDBC, Maven, Gradle, Amazon Web Service, Google Cloud, Git, Apache Subversion

## WORK EXPERIENCE

**BNP Paribas**                                                                                                                          **New York, NY**
*Software Engineering Intern*                                                                                          May 2019 – August 2019
- Worked as a full-stack web developer at the world's $8^{th}$ largest bank (#44 of Fortune Global 500)
- Developed and deployed Mirador V2, a production security privileged access management web service that allows all business lines across the globe to assess weekly privileged access related to their duties in an auditable way
- Improved the interaction metric of the system by 5.8% and the latency metric by 2.7%
- Key technologies: Java, Groovy, HTML, JavaScript, jQuery, qooxdoo, AJAX, Spring, JDBC, Microsoft SQL Server, Maven
  - Developed an interactive web page for users to assess the risk of privileged access, bypasses and whitelist rules
  - Designed and created a stable microservice with RESTful APIs to extract, load and transform data
  - Implemented a high-performance, fault-tolerant web service for bulk processing of terabytes of data
  - Implemented automated deactivation, bulk upload, and export of whitelist rules, bypasses, and user data
  - Implemented an end-to-end autocomplete feature for data entry search bars based on most frequent historical search data

**Panopath Education and Technology**                                                                                          **New York, NY**
*Software Engineering Intern*                                                                                    August 2018 – September 2018
- Worked as a full-stack web developer at an Internet start-up whose main product is a college-oriented social-networking app
- Developed and deployed a web service to automate sales and accounting procedures
- Developed an interactive web page for app administrators to monitor and export sales data (HTML, CSS, JavaScript, AJAX)
- Created Java servlets with RESTful APIs to handle HTTP requests and responses for purchasing through QR codes (Java, SQL)

## PERSONAL PROJECTS

**Events++: Java Web Service Development – Events Search and Recommendation**
- Front End:
  - Developed an interactive web page for users to search for events and purchase tickets (HTML, CSS, JavaScript, AJAX)
  - Improved personalized events recommendation based on search history and favorite records
- Back End:
  - Created Java servlets with RESTful APIs to handle HTTP requests and responses
  - Built MySQL relational database to capture real events data from Ticketmaster API
  - Designed algorithms (e.g., content-based recommendation) to implement events recommendation
  - Deployed server-side to Amazon EC2 to handle 150 queries per second tested by Apache JMeter
- Link: http://54.70.79.155/Jupiter/ (Username: 1111, Password: 2222)

**Around: A Cloud and Geo-index Based Social Network**
- Built a scalable geo-based social network in Go to handle posts and deployed to Google Cloud (GKE) for better scaling
- Utilized ElasticSearch (GCE) to provide geo-location-based search functions such that users can search nearby posts within a distance (e.g. 200km)
- Used Google Dataflow to implement a daily dump of posts to BigQuery table for offline analysis
- Implemented basic token-based registration/login/logout flow with React Router v4 and server-side user authentication with JWT
- Link: https://github.com/Ruian-Li/Around-Geo-Index-Based-Social-Network

**React JS based NBA Player Strength Visualization**
- Created a dashboard using React, D3 and Ant Design backed by API from stats.nba.com to visualize individual player's shot data, including a shot chart and user profile view
- Created 4 extra filters and 2 shot themes (hexbin and scatter) to provide more customized visualization on the shot chart
- Developed an autocomplete player search bar providing a list of players (image and name) in the suggestion list
- Link: http://nba-player-strength-visualization.s3.amazonaws.com/index.html