

# Yujian Zhou

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## EDUCATION

**The University of Iowa**, Iowa City, IA

Sep 2017 – May 2020

M.S. in Computer Science, GPA **3.5**

**Illinois Institute of Technology**, Chicago, IL

Aug 2015 – Jun 2017

M.S. in Electronic Engineering

## SKILLS

- **Programming language:** Java, Python, C, Go, React, SQL, HTML, CSS, JavaScript, Kendo UI
- **Databases:** MySQL, MongoDB, PostgreSQL, Oracle, Azure Cosmos
- **Web Development:** Java Servlet, RESTful, Hibernate, Spring, Spring MVC, Spring Boot, Spring Cloud, JSP, Struts, Elasticsearch, AWS, Google Cloud Platform, React, Ant Design, Testing, Android Development, Azure Portal, SQL on-demand, ASP.NET core
- **Courses:** Algorithm, Data Structure, Database, Machine Learning, Deep Learning, Distributed System.

## EXPERIENCE

**Full Time Software Developer, FIST team in Microsoft (Pactera Technologies)**

Sep 2020 – Present

*FraudHunter Escalation Project*

- Designed Front-End page for Escalation page using **Kendo UI** package and managed the layout using **Bootstrap** to consistent with the shared file. (Grid, TextArea and etc)
- Implemented **ASP.NET MVC** to design the back end services letting the user to input the GUID of records and get the result listing on the Grid
- Utilized **SQL On-Demand** to retrieve data from COSMOS data stream and added the input validation to make sure the user input is in Guid format
- Configured different environment on dev/prod in pme/ppe to make sure different user can access the project using SAW (secure admin workstation) or normal machine
- Manipulated data using SQL integrated in **Dot Net Core** from Azure Data Warehouse and add views for escalation sweeping file
- Created Unit Tests (**ASP.NET Web API**) that check the returned values from controller methods
- Completed Data migration from current Automation account to Azure data factory for runbooks using webhook

**Software Engineer Intern, BODACH Inc.**

Jun 2019 – Aug 2019

- Designed a web application using **Spring framework** (dependency injection, inversion of control, REST API etc.) to support customers to register/query/order/compare with different detector products in different temperature ranges
- Implemented Controller and ModelAndView to handle different requests from DispatcherServlet using **Spring MVC**
- Implemented security workflow via in-memory and JDBC Authentication and Authorization to differentiate customers and administrator provided by **Spring Security**
- Utilized **Hibernate** to map an object-oriented domain with database to reduce development time and maintenance cost
- Implemented **View/Action/End states, Transitions** and **HandlerMapping** to connect states and mapping result views using **Spring Web Flow** for ordering process

**Teaching Assistant and Department Tutor, the University of Iowa**

Sep 2017 – Jul 2020

- TA for Algorithms, Data Structures and Information System. Tutor for Algorithms, Java and Python
- Communicated with Professor and other TA about teaching plans. Holding office hour and discussion section

## PROJECTS

**Full Stack Web Application – Event Search and Ticket Recommendation**

- Created Java servlets with **RESTful APIs** to improve scalability also handle HTTP requests and responses
- Developed an interactive web page for users to search nearby events and purchase tickets (HTML, CSS, JavaScript, AJAX)
- Used **MySQL** to store real business data (price, location, category, etc.) and migrated to **NoSQL** database (MongoDB) for better scalability
- Researched multiple recommendation algorithms (**content/user/item** based) and evaluate their performance (precision vs recall)
- Led and performed unit/integration/regression tests cycles to ensure the system's reliability
- Deployed server side to Amazon EC2 to handle 150 queries per second and tested by **Apache JMeter**
- Demo link: <http://ec2-18-188-71-196.us-east-2.compute.amazonaws.com:8080/Jupiter/>

**Cloud and React Based Social Network**

- Launched a scalable web service in **Go** to handle posts and deployed to Google Cloud (**Google Kubernetes Engine**)
- Implemented basic token based registration/login/logout flow with **React Router v4** and server-side user authentication with **JWT**
- Implemented multi features such as "Create Post", "Nearby Posts As Gallery" and "Nearby Posts In Map" with **Ant Design, GeoLocation API** and **Google Map API**
- Used **ElasticSearch** (deployed to **GCE**) to provide geo-location based search functions such that users can search nearby posts within a distance (e.g. 200km)
- Used **Google Vision API** to provide a face detection model and integrate with the Go service
- Demo video: <https://recordit.co/awrQb1zn2I>

**React JS Based NBA Player Strength Visualization**

- Designed an NBA player visualization web app with **React, D3** and **Ant Design** backed by data crawled from stats.nba.com to visualize individual player's shot data, including a shot chart and user profile view
- Implemented various switches for more customized shot chart options like switching between hexbin and scatter
- Created a shot frequency filters to provide more targeted visualization areas with a larger amount of shots on the chart
- Developed an **autocomplete search bar**, which autocompletes queries with list of players (image and name) shown on suggestion list