FANGQI YUAN

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https://niko-yuan.github.io/Website-Portfolio

Education

M.S. Computer Science   University of California, San Diego   9/2022-present
- **GPA**: 3.875
- **Programming Coursework**: Convex Optimization, Computer Vision, Big Data Analysis with Spark

B.S. Computer Science   University of California, San Diego   9/2020-6/2022
- **GPA**: 3.84
- **Programming Coursework**: Algorithm & Data Structures, Operating System, Website Development, Networks

B.S. Computer Science   Pennsylvania State University   9/2018-6/2020

Work Experience

Software Engineer, Intern, *Shanghai ShiYou Network Co.Ltd.*   6/2020-9/2020
Shanghai, China
- Improve the efficiency of the work by deploying statistics about the internal financial data by using PySpark, Pandas, and matplotlib and doing a presentation about it.
- Compiled statistical on all kinds of state data in the game and reported it on whether the data is sufficiently balanced or not.
- **Leveraged Knowledge in** python with Pandas, PySpark, matplotlib

Software Developer, Intern, *Industrial and Commercial Bank of China Limited (ICBC)*   5/2019-10/2019
https://www.icbc-ltd.com/ICBCLtd/en/
- Using relational algebra to simplify complex SQL operations and speed up employee querying of target database.
- Refactored the process by revising the SQL to pass the CI/CD pipeline. Maintained database for ICBC by using SQL through Toad and manually passed the process labeled as fake alert.
- Redesign the old HTML application by React.js, Bootstrap for the UI and Node.js+Express+PostgreSQL for the back-end server, and Chrome Dev tools to make our apps responsive on both PC and IOS/Android. This application increases employee efficiency by letting colleagues notice all the process statuses without querying the database.
- **Leveraged Knowledge** in Full Stack Web Development, React.js, Node.js with Express, PostgreSQL, JavaScript, HTML5/CSS3, Debug with Chrome Developer Tools, Bootstrap

Projects

Personal Website: https://niko-yuan.github.io/Website-Portfolio/ (for additional information and source code)

myDiscord (https://mydiscord-production.up.railway.app)

- Developed a responsive website for discord clone using Next.js, React, Socket.io, Prisma, Tailwind, and MySQL which allow users to online chat by text, audio, and video with other users.
- Design a MySQL database on Prisma which allows user to create, modify, and delete servers, using invited link to join a server, create, modify, and delete three types of channels, and manage members.
- Using Socket.io and Livekit to enable real-time, bidirectional communication between a web client and a server by using text, audio, and video.
- Utilized: Next.js, React, Socket.io, Prisma, Tailwind, MySQL, and Git

Gamers Website (https://gamers-nkbr.onrender.com)

- Developed a responsive web application using React Redux and Sass for frontend which allows users to explore store, games, creator information through RAWG Api.
- Designed and implemented secure backend services with Node.js and Express.js, utilizing PostgreSQL for data storage, so that users can only exploring website information while admin can watch all the user profile with smooth experience.
- Employed Git for version control, ensuring collaborative development and efficient code management.
- Utilized: React Redux, Sass, Node.js, Express.js, PostgreSQL, and Git

Skills

Program Language: (*proficient*): python, JavaScript, SQL, HTML/CSS, Git (*familiar*): Java, C++

Data Tool: (*proficient*) Apache Spark (*familiar*): Apache Hadoop, Apache Hive, AWS Glue