KYLE QIN

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EXPERIENCE

Tie+ | *React, Node.js, GraphQL, Neo4j, Docker, AWS — Jahnel Group Inc.* **02/2023 – 05/2023**
- Designed and developed production-ready front-end layout system, server API gateways, system workflow, and containerization. Accelerated project initiation, leading to significant improvement on team start-up speed and project timeline integrity.
- Developed and optimized full-stack knowledge-graph based recommendation system. Quantified bidirectional project to applicant matching, enhanced the reliability and efficiency of the candidate selection, leading to streamlined recruitment process.

FlexSwarm | *React, Python, Algorand Blockchain, TEAL — AI & Blockchain @ RPI* **10/2022 – 12/2022**
- Instituted a robust evaluation process for a federated classification machine learning model, enabling flexible label training, therefore improved model adaptability and performance.
- Developed a user interface using React and Algorand Blockchain and subsequently executed system integration, improved system interoperability and user interface quality.
- Initiated research and development of a Proof of Quality consensus mechanism integrated with differential privacy, enabling system trustworthiness.

ChickenWinner | *Angular, Python, Node.js, Apollo, GraphQL, MongoDB* **02/2022 – Present**
- Designed and implemented data accumulation and periodic retraining process, allowed for improved prediction accuracy and robustness over time.
- Implemented and optimized ETL pipeline and iterative model improvement with automated service scheduler, isolated feature engineering module from ETL that supported subsequent model horizontal upscale and additional evaluation metrics.
- Developed and optimized server API and caching system, reduced turn-around computation and page load time.

Pokemon Battles | *Node.js, React, Firebase* **02/2022 – 05/2022**
- Designed and Developed shop feature related server-side REST APIs and front-end components in React, ensuring the completeness of game-play workflow.
- Implemented Web Socket service and front-end state machine to support battle system functionality.

EDUCATION

Rensselaer Polytechnic Institute Troy, NY
B.S. Dual Computer Science and Information Technology & Web Science *09/2018 – 05/2023*
Concentrated in AI & Data, and Web Technologies

SKILLS

Programming Languages:
TypeScript, JavaScript, Python, Java, C/C++, Solidity, GraphQL, SQL, Haskell, Bash/Shell

Development:
Full-stack Software Development, DevOps, Project Management, Data Mining & Visualization

Technologies/Frameworks:
GNU/Linux, Git, Docker, Nginx, Node.js, React, Django, Flask, PyTorch, Redis, Web3, AWS, GCP

Machine Learning:
Core ML, Image Processing/Classification, Motion Detection/Tracking, Recommender Systems

ACTIVITIES

Software Developer | *Rensselaer Center of Open Source* **09/2020 - 05/2022**

Practice Coordinator | *RPI Club Tennis* **09/2019 - 05/2023**