YUHENG WANG

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EDUCATION

Imperial College London - MEng in Aeronautical Engineering   *2017 - 2022*

Final Year Project: Computational Modelling of Cardiac Electrophysiology

Gitlab Repo: https://gitlab.nektar.info/ccantwel/nektar/-/tree/feature/cardiac-sensor

- Developed a sensor for Nektar++, an open-source C++ framework specializing in finite element calculations, with the goal of enhancing the mathematical formula used in cardiac simulations.
- The implementation of this sensor resulted in a significant performance increase, reducing simulation time by 40% and improving accuracy by 20%.

WORK EXPERIENCE

Production Engineer, Datastore Fleet Management - Meta, London   *Aug 2022 - Present*

- Manages Meta's largest MySQL datastores, consisting of 1 million servers and hundreds of petabytes of data, utilizing Python and Rust for system development.
- Led a team of 5 in the development of a configuration management library intended for future MySQL instance containerization. The library manages the config files for 200k replicasets.
- Collaborated with machine provisioning teams to execute a service migration. Successfully met a two-week deadline and landed changes in several stages to ensure system stability and safety, with roll-back capability at each stage.
- Investigated and resolved two SEV2 issues, effectively preventing system crashes.

Software Engineer Intern, Commerce - Electronic Arts, Shanghai   *July 2021 - Sep 2021*

- Designed and built a data processing system to visualize purchasing data, effectively streamlining data analysis and improving decision-making processes.
- Utilized Logstash, Elasticsearch and Kibana for data collection, storage, and visualization.
- Used Docker to containerize the system, ensuring successful deployment in production.
- The system currently processes over 200k lines of purchasing logs daily.

EXTERNAL EXPERIENCE

Cofounder - TwitterSpace   *March 2021 - Present*

- Worked in a team of 3, developed and maintained backend service for TwitterSpace, a website that collects, recommends and archives web3-related Twitter Spaces.
- Responsible for data fetching, storage, and email marketing system.
- The project ranked among the top 100 projects in BuildSpace out of 6,000 participant.
- Link: https://www.twitterspace.co/

SKILLS

- **Programming Languages:** C++, Python, Rust, Java, Shell Script, MATLAB, Bash
- **Applications:** Linux, MySQL, Docker, Git, VS Code, Elastic, Conveyor (CI/CD), Tupperware (Docker + Kubernetes), Mercurial (Version Control), Buck2 (Build System)
- **Concepts:** Networks, Operating Systems, Databases, CI/CD, Unittesting
- **Languages:** Fluent in English and Chinese