Huamao XU

About me： Software Development Engineer dedicated to creating efficient and impactful solutions.

Information

Phone： +33669946588

Email： jeremyxu1234@gmail.com

Linkedin：
https://www.linkedin.com/in/huamao-xu-b05225204/

Portfolio：
https://jeremyxxxuuu.github.io/portfolio/

Skills

- **Programming Languages:**
  JavaScript (TypeScript),
  Node.js, C/C++, Go, Python

- **Databases:**
  MySQL, MongoDB,
  Oracle, Redis

- **Web Development:**
  ReactJS, Redux,
  Next.js, HTML5/CSS3
  Electron

- **Data Analysis:**
  Pandas, scikit-learn

- **AI (GPT):**
  Prompt, Vector Database
  Langchain

- **Agile Methodologies:**
  Scrum/Agile, GIt

- **Cloud Services:**
  Docker, GitHub Actions
  Google Cloud Platform
  AWS, Heroku

Work Experience

Sep 2022 - Present

Orosound(Paris, France)   Fullstack Software Developer (CDI)

Restful API for multi-platform applications   **| TypeScript, Nodejs**

- Integration of **OAuth2 & JWT** for secure user authentication and authorization.
- Extensive **testing,** unit, integration, and end-to-end scenarios using tools like **Jest**.
- Contributed to the development of comprehensive API documentation using **Swagger**, improving developer accessibility and efficiency.
- Streamlined **CI/CD pipeline** (**Github action, docker, Google Cloud**) setup, reducing manual efforts and enhancing deployment efficiency, automating testing and deployment procedures.
- Improved API response times by **30%** through optimization efforts(Caching, Connection Pooling), enhancing user experience.

Auth Service Design and Implementation   **| OAuth2, OpenID**

- Led the design and successful implementation of the company's Auth service.
- Designed a federated identity management system using **OAuth2**, integrated external identity providers, enabling users to leverage social login via platforms like Google and Facebook.
- Developed a feature-rich full-stack customer product management application. Utilized **Next.js (React)** . Integrated **OAuth2** to enhance security while maintaining a user-friendly experience.

Aug 2021 - Feb 2022

Siemens Healthnieers, Inc. (Shanghai China)   Software Engineer Intern

Human Pose Estimation for CT Scan Machine   **| Python, Cuda**

Designed and implemented a real-time human pose estimation solution for a CT Scan machine. Leveraged advanced computer vision techniques(3D cloud, intel radar camera) to accurately estimate human poses, used nvidia jetson for edge computing, **accelerated by NVIDIA TensorRT**, used **pandas** for data analyze Enhanced patient care and diagnostics by providing critical insights for medical professionals.

Project experience

Mar 2022 - Jun 2022   **Game recommendation Platform**

Duties: Technical team leader, responsible for frontend+backend architecture design, database design and core modules development, and deployed on heroku

Technologies: Reactjs + nodejs(Express) + mongodb + redis + python(pandas, sklearn) + Sass(Heroku)

- Created **React** components and managed application state with **Redux**.
- Utilized **Redis** for caching data generated by machine learning programs, enhancing performance.
- Implemented software engineering diagrams to guide the development process.
- Ensured successful project completion by adhering to **agile** development practices.

Education

Sep 2020 - Apr 2023

University of Technology of Belfort-Montbéliard

Software Engineering(informatique ingénieur) (Master)

Sep 2017 - Jul 2021

Shanghai University(211)   Computer Science (Bachelor)

Extracurricular activities

Awards:

- Third Prize of Shanghai University Electronic Innovation Comprtition
- Certificate in Accelerated Computing with CUDA C/C++ at Deep Learning Institute, NVIDIA
- Linguaskill C1 in English, B2 in Fench

Interests: GYM, Badminton, Ski, CrossFit