Bolong HE

Graduated from Simon Fraser University with a MSc in Applied Mathematics. As a highly efficient full-stack engineer, I excel at tackling intricate tasks with remarkable speed. My skills extend to rapid prototyping, pragmatic problem-solving, and a remarkable aptitude for rapid learning. My proficiency encompasses JavaScript, TypeScript, and Python, while my familiarity includes React, Vue, NodeJS, and Flask. I possess an insatiable curiosity for novel software technologies that drive solutions and achievements, perpetually keeping my approach innovative and rejuvenated.

Tech Stack

TS/JS (React, NodeJS, NextJS, Vue ...), PYTHON (Flask, Pandas, Scrapy, Celery ...), AWS, MYSQL, MONGODB, REDIS, MONGODB, DOCKER, GRAPHQL.

Highlights

POWERFUL LEARNING ABILITY

EFFECTIVE TIME MANAGEMENT SKILL

SELF MOTIVATED

ABUNDANT PROBLEM-SOLVING EXPERIENCE

Education

2015-2017 **Master of Science in Mathematics**, *Simon Fraser University*, Surrey, BC, Canada.

2010-2015 **Bachelor of Arts with Honours in Applied Mathematics**, *York University*, Toronto, ON, Canada.

Experience

May 2023
May 2024 **Senior Front-end Developer**, *Know your customer*, Remote.
- Refactored an existing Angular project to React, achieving higher performance and improved user experience.
  - Rewrote existing pages and components using React and related technologies (e.g., Redux,).
  - Collaborated with backend team to ensure smooth data interaction between frontend and backend.
  - Developed end-to-end tests using Cypress for automated testing, ensuring application quality and stability.
  Tech Stack: React, Redux, Python, Cypress

March 2021
May 2023 **Senior Full Stack Developer**, *Forsta*, Vancouver, Canada.
- Spearheaded the development and maintenance of the frontend project and NodeJS middlewares for a customer experience feedback product, ensuring seamless operation within the production environment.
  - Oversaw the maintenance of an internally utilized React components package, guaranteeing its reliability and relevance.
  - Wrote React unit tests and end-to-end tests, bolstering the project's robustness and user experience.
  Tech Stack: React, Redux, NodeJS, Express, Jest, Testcafe

February 2020 **Senior Technology Lead**, *PwC Shanghai Acceleration Center*, Shanghai, China.

March 2021 - Led TypeScript full-stack development utilizing React and Node.js, with additional involvement in the development of the CI/CD pipeline to ensure seamless deployment and integration.

- Demonstrated adeptness in React UI development, seamlessly integrating advanced technologies such as D3.js and Google APIs to enhance user interfaces and overall functionality.

Tech Stack: React, NodeJS, MongoDB, MySQL

February 2018 **Python Software Engineer**, *3D Medicines Co., Ltd*, Shanghai, China.

February 2020 ∗ *3DMed Star Employee*

- Conceptualized and executed the design and development of a distributed bioinformatics analysis framework using Python, contributing to enhanced efficiency and scalability in analysis processes.

- Engineered an automated context generation system for genetic testing reports, streamlining the report generation process and ensuring accuracy.

- Constructed a web crawler to gather genetic variant information, furnishing a valuable data repository for further analysis and research.

- Orchestrated the end-to-end development of a clinical knowledge base, including the frontend, backend, and database components. This comprehensive contribution resulted in a robust and functional system for clinical information management.

Tech Stack: Python(Flask, Pandas), Vue, MySQL, Docker, Redis, Neo4j

Project Experience

2023-2024 **NewCast**, https://newcast.ai.

- A website that simplifies the creation of marketing videos. Leverage AI avatars to bring your scripts to life and effortlessly animate captions for greater impact.

Tech Stack: Python(Fastapi, LangChain), Next.js, ChatGPT, AWS (S3, ECS, DynamoDB, etc...)

2022-2023 **Artsio**, https://artsio.xyz.

- Discover, inspire, and create AI generated images using stable diffusion models.

Tech Stack: Python(sanic), Next.js, AWS (S3, ECS, DynamoDB, SQS, OpenSearch, etc...)