

Yang Qi

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PROFESSIONAL EXPERIENCE

Shinga Creative

Software Engineer | May 2025 – Present | Sunnyvale, CA

- Developed robust, human-centered user interfaces and data visualizations for client branding websites using **React**, resulting in a measured increase in user engagement.
- Wrote clean, maintainable, and performant code for high-traffic web applications by applying modern **design patterns** and refactoring legacy components.
- Engineered and shipped high-quality features, ensuring reliability and performance through a comprehensive **automated testing** strategy that included unit and integration tests with **Jest**.

University of Utah - School of Medicine

Software Developer | July 2023 – Jan 2025 | Salt Lake City, UT

- Worked on iobio.io, real-time genomic data analysis and visualization web platform using **Vue**, **D3.js**, **Vite**, **Python**, **Node.js**, and **PostgreSQL**, accelerated the clinical diagnosis of diseases caused by genomic variants.
- Led the development of bam.iobio, an interactive analysis dashboard by creating a reusable UI Component SDK (**Web Components**, **D3.js**) that improved user analysis efficiency and enabled seamless integration across diverse web applications (React, Vue).
- Collaborated with Harvard Medical School's Undiagnosed Diseases Network to design a patient portal (**Figma**, **React**, **Node.js**, **D3.js**), significantly improving data accessibility and cross-team collaboration.

Enveda Biosciences

Software Engineer Intern | May 2022 – Aug 2022 | Salt Lake City, UT

- Architected and built event-driven, **serverless ETL pipelines** using **AWS Lambda**, **AWS Glue** and **DynamoDB** creating a scalable and cost-efficient data processing foundation for the ML platform.
- Designed and deployed a **ML model inference** service and web application using Python (Streamlit, RDKit), enabling over 1,000 biologists to perform real-time chemical compound prediction analysis.
- Implemented a full **CI/CD** pipeline with **GitHub Actions** and **Docker**, enabling automated testing and deployment of data services to AWS, ensuring high-reliability systems for the ML workflow.

University of Utah - ProtoSpace

3D Print Lab Assistant | Apr 2022 – May 2023 | Salt Lake City, UT

- Developed a 3D printer ticket system using **Python**, **FastAPI**, and **GraphQL**, **MongoDB** to automate print request workflows and monitor printer operational status, integrating with Jira for ticket management.

PROJECT EXPERIENCE

aiXiv: AI-Driven Research Platform

- Developed the full-stack application aiXiv by designing robust **RESTful APIs** with Python (**FastAPI**, **Pydantic**) and a modern UI with **React** and **TypeScript** to power a **multi-agent** research platform.
- Designed the **PostgreSQL** database schema and developed data access layers using **SQLAlchemy**.
- Deployed and managed a scalable, containerized backend using **Docker**, orchestrating services across AWS **ECS** and **EKS** for high availability, with the entire cloud infrastructure defined as code using **Terraform**.

SKILLS

- **Frontend:** React, Redux, Vue, D3.js, Vite, JavaScript, TypeScript, HTML, CSS, Tailwind
- **Backend:** Python(Django, FastAPI), Java(SpringBoot), Node.js(Express.js), Golang, REST APIs, GraphQL
- **DevOps & Cloud:** AWS (EC2, S3, Lambda, ECR, ECK, IAM, ELB, Auto Scaling, Route 53), GitHub Actions, Terraform, Docker, Kubernetes, Grafana, Prometheus, Loki, Linux
- **Databases:** MySQL, PostgreSQL, DynamoDB, MongoDB, Redis
- **Testing:** Jest, Pytest, JUnit

EDUCATION

University of Utah

Master's in Computer Software Engineering | *Aug 2021 – May 2023 | Salt Lake City, UT*

University of Electronic Science and Technology of China

Bachelor's in Mechanical Engineering