

Yutong (Irene) Ye

Software Engineer

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TECHNICAL SKILLS

Programming Languages | Python 3, JavaScript ES6+, Java, SQL, HTML5, CSS

System Design | Monoliths, Microservices, Domain-driven design, Message passing, Event sourcing

Back-End | Django 4, PostgreSQL, MongoDB, CI/CD, FastAPI

Front-End | DOM manipulation, Websockets, React, Tailwind

RELEVANT PROJECTS

Hackstarter Software Engineering Fellow | JavaScript | React | Next.js
| <https://github.com/Yutong-Ye/Chat-AI>

Jul '24 - Sep '24

Developed AI-powered support assistant with Next.js and OpenAI API

- Developed an AI-powered support assistant using Next.js, OpenAI API, and Material-UI, implementing real-time chat functionality for intelligent, responsive user interactions
- Integrated server-side logic via Next.js API routes to handle AI responses and deployed the application on Vercel, ensuring scalability and efficient performance

Wish to visit | Software engineering | Python | FastAPI | JavaScript | React
| <https://sry-wtv.gitlab.io/wish-to-visit/>

Feb '24 - Apr '24

Developed a travel blog platform with FastAPI and React, enhancing user engagement and optimizing deployment

- Spearheaded the development of a travel blog platform utilizing **FastAPI** for backend services and React for dynamic UI, integrating sophisticated user authentication and real-time content creation tools
- Revamped **CI/CD pipelines** using Git and Jenkins for rigorous automated testing and streamlined deployment, achieving a **40% increase** in deployment speed and a **30% reduction in load times** with FastAPI optimizations. This significantly enhanced user experience, evidenced by reduced bounce rates and higher session durations
- Led a cross-functional team of three developers in the **agile development** of critical features, such as personalized user dashboards and adaptive content recommendations
- Architected and deployed robust **user authorization** protocols using OAuth and JWT

Car Dealership | Software engineering | Python | Django | JavaScript | React
| [PostgreSQL | https://github.com/Yutong-Ye/CarCar](https://github.com/Yutong-Ye/CarCar)

Dec '23 - Jan '24

App developed for Used Car Dealership

- Developed a user-friendly and intuitive application for a used car dealership using Django for the backend and **React** for the frontend, along with **Bootstrap and Node.js**
- Collaborated with a teammate to integrate **RESTful APIs** to produce a modern application and efficiently meet project requirements using **Python and JavaScript**
- Utilized **Poller** for efficient data polling, enhancing **real-time data synchronization** across the application
- Employed **Docker** to containerize the application, ensuring consistent environments for development, testing, and production
- Enhanced platform security by implementing HTTPS encryption and custom domain names, thereby fortifying data integrity and privacy. This crucial upgrade boosted user trust and adhered to best security practices, mitigating risks of data breaches

PROFESSIONAL EXPERIENCE

Vera institute of Justice | Financial Analyst

Jul '18 - Dec '21

- Collaborated with department leaders to utilize Workday's predictive analytics tools, forecasting financial performance and **shaping strategic plans** in line with the non-profit's mission and budgetary constraints.
- Employed **data visualization** to effectively highlight the non-profit's fiscal stability, boosting donor support by 15% through clear financial communication.

EDUCATION

CUNY Queens College | Bachelor of Art in Computer Science

Jan '23 - Present

Hack Reactor | Advanced Software Engineering Certificate

Nov '23 - Apr '24

CUNY Baruch College | Bachelor of Business Administration in Finance

Jan '14 - Jun '17