Yuehao (Kate) Fu

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https://kathrinefu.github.io/personal-portfolio/

EDUCATION

M.S. in Information Systems Management, **Carnegie Mellon University**, Pittsburgh, PA   *May 2023*
Courses: Foundation of Computer Systems (18613), Web Application Development (11437), Machine Learning (10601)
B.S. in Information Management and Systems, **Shanghai University of Economics and Finance,** Shanghai, China   *June 2021*

SKILLS

Programming Language: **Java, Python, JavaScript, TypeScript, C, Swift, Dart, SQL, HTML, CSS**
Web & Mobile Development: Spring, Springboot, React, NodeJS, NestJS, Django, Jarkata EE/J2EE, Flutter, SwftUI
Dev Tools: AWS, Heroku, Docker, Hadoop, MySQL, MongoDB, Maven, Figma, Git

WORK EXPERIENCE

TikTok (Bytedance Inc.), a tech company operating a range of content & e-commerce platforms   *San Jose, US*
  Software Development Engineer in Test | Go, Typescript, Testcase Design, Test Automation   *Mar 2024 - Current*
  - Support **5+ feature delivery** for Tiktok global e-commerce seller center with **no online issues**, including new country launch, brand mall program, and educational components to build a high-quality platform for TikTok sellers around the world.
  - Authored test automation framework for **interface testing** and **end-to-end testing**, covered **90%+** core cases.
  - Led cross-functional team communication and collaborations, reviewed 8+ product requirement designs and tech designs, and worked with various teams for feature delivery and problem-solving.

SpurSMB, a startup company in software automation selection and subscription for small business   *Remote, US*
  Software Engineer, Intern | JavaScript, TypeScript, NodeJS, NestJS, React, Azure Database   *Jul 2023 – Nov 2023*
  - Built the web platform using **Typescript**, **React**, **Redux**, and **Tailwind CSS** for the frontend, and **NestJS** for the backend. Implemented core features including user signup, techstack management, expense tracking, software detail display, etc.
  - Developed **20+** RESTful APIs to manage user flow, techstack management, and software display, leveraged **Axios** and NestJS **Cron** for regularly scraping data from G2, and set up user feed and recommendation email scheduled sending.
  - Connected to **MS Azure Database** using **Prisma**, designed pagination queries for faster data fetching in software list view.
  - Created **10+ Redux** slices, used **RTK Query** to facilitate cacheable backend API calls, created **15+** reusable React components, and used **lazy loading** for large amounts of software details.

Senuelo Advertising, a creative advertising agency   *Adelaide, Australia*
  Software Engineer, Intern | Python, FastAPI, JavaScript   *May 2022 – Jul 2022*
  - Implemented a **FastAPI web service** based on **GPT-3** to perform AI article generation from user input prompt.
  - Built a machine learning pipeline that involved data crawling and cleansing using Python, employing packages such as **Beautiful Soup** and **Scrapy**, and fitting into the **BERT** model to identify keywords from 10k+ published blog posts.
  - Utilized a multiprocessing pool to optimize data crawling tasks, hence achieving a **20%** improvement in efficiency.

ACADEMIC & PROJECT EXPERIENCE

JavaEE Microservice Fullstack, CollaSpace | Java EE, Microservice, SpringBoot, RabbitMQ, PostgreSQL   *Aug 2023 – Dec 2023*
  - Built a full-stack website for team collaboration in **Microservice** with **SpringBoot** for backend and **React** for frontend.
  - Incorporated 7+ services to realize core functions including team management, proposing cross-team events, and using tickets to communicate on task assignments, product updates, bug fixes, etc.
  - Implemented microservice communication via **RabbitMQ** for asynchronous and **WebClient** for synchronous processing to adapt to different types of response requirements, integrated **WebSocket** and **Stomp** for real-time notification.
  - Developed routing with **Eureka Server** and **API Gateway,** user authentication with JWT and **Spring Security**.

Django Fullstack, FurryWayHome | Python, Django, MySQL, JavaScript, Docker, AWS   *Nov 2022 – Dec 2022*
  - Implemented a full-stack website for animal rescue platforms with animal searching, virtual pet raising game, and animal information updates using Python **Django** Framework for the backend, and **JavaScript** with **jQuery** and **Ajax** for the frontend.
  - Integrated **Google OAuth**, **Stripe** payment, and **Google Map API** to enhance the functionality of the website.
  - Containerized the application with **Docker** and deployed it to an **AWS EC2** instance.