

Dantong (Judy) Zhu

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SUMMARY

Software Engineer (3 years) specializing in frontend and full-stack; proficient in JavaScript/TypeScript, React, Redux, Java, Python and Node.js with experience of web development and UI/UX design that serve millions of consumers.

EXPERIENCE

Software Engineer, Barclays US customer bank, Whippany, New Jersey

June 2023 - Present

- Developed barclays credit card website, enabling over 90% of customer letters to be sent digitally, improved usability and accessibility across devices, delivering \$3M+ paper cost savings annually;
- Transformed 8+ UI stateless components into API-driven reusable components using React, Redux, SASS(Flexbox, Grid, CSS variables, Tailwind), optimized performance to scale Notification inbox traffic from 370 to 25K per week;
- Upgraded a monolithic frontend to a micro frontend(MFE) architecture using webpack module federation and established each CI/CD Jenkins pipelines with automated testing, resiliency security checks, saving \$12K+ hrs per release cycle;
- Implemented RESTful microservice using Spring Boot and Java, orchestrating REST API triggers to downstream services, querying relational database via SQL for data read/write and deploying to AWS cloud;
- Conducted A/B testing on React Native components across desktop and mobile platform, comparing layout and interaction patterns, leading to data-driven design decisions and a 40% reduction in duplicate code;
- Integrated OpenAI's LLMs via Azure to build a multi-agent system simulating PM, Developer, and QA roles, enabling AI-driven product planning and iterative software development with dynamic prompt chaining and memory management;
- Reduced initial JS bundle size on the post-login SPA page (visited by 50k+ clients monthly) via dynamic import through lazy hydration and dropped the number of DOM nodes from 600 to 25, cutting first-load time by 200 ms per visit;
- Migrated the Barclays Luxury Credit Card marketing site from React Single Page Application to MPA pages, improving Search Engine Optimization (SEO) ranking by 30% and reducing DOM tracking gaps by 70%;

Software Engineer Intern, RingCentral, Fort Lauderdale, Florida

June 2022 - August 2022

- Delivered mobile app download flows in the desktop app (QR code & SMS link) using React, TypeScript following MVVM pattern and managed state synchronization via Mobx, increasing mobile app adoption by 30%;
- Integrated 8+ NodeJS back-end APIs into Next.js frontend pages and iterated 5+ UI versions to reduce login errors by 15% and deliver a consistent cross-platform authentication experience;

Software Engineer Intern, Equinix Cloud Service, New York, NY

Feb 2023 - April 2023

- Refactored and optimized the cloud service subscription platform using Ruby on Rails, enhancing usability and responsiveness, which led to a 30% drop in negative user feedback;
- Developed and maintained robust automated test suites with RSpec-Rails and Cucumber, achieving 100% test coverage and ensuring smooth CI/CD integration for faster and more reliable deployments;

Software Engineer, iFLYTEK Co., Ltd., Wuhan, China

July 2020 - August 2021

- Developed web pages in Vue, Vuex and Vue Router with WebSocket APIs retry mechanism for multi-file upload in enterprise content management system, supporting stable upload of 10+ files(pdf/image/sheet etc.) in one time;
- Reduced QA accessibility 10+ defects through automated testing, conducted Jest unit tests via React testing library and achieved 90% test coverage in test-driven development(TDD);
- Collaborated with cross-functional teams (designers, engineers, and product managers) to implement new features and resolve platform issues following Agile development;

SKILLS

Programming Languages: JavaScript (ES6), TypeScript, Java, Python, SQL, Ruby, C++, CSS3, HTML5, Postgres, MySQL

Tools /Frameworks: React, Vue, Redux, Angular, Node, NextJS, Springboot, Flask, Ruby on Rails, Github Copilot

EDUCATION

Columbia University, New York, NY

May 2023

Master of Science in Biostatistics, Health Data Science Track; GPA: 3.79 / 4.0

Huazhong University of Science and Technology, Wuhan, China

June 2020

Bachelor of Engineering in Biomedical Engineering, Electrical and Computer Engineering Track; GPA: 3.60 / 4.00