

Archer Zou

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🎓 EDUCATION

Master of Applied Data Science

University of Canterbury
2025.02 – present
New Zealand

Master - Communication and Information Systems

Nanjing Institute of Electronics and Technology
2007.09 – 2010.06 | China

Bachelor - Mechanical Engineering and Automation

Southeast University
2002.09 – 2006.06 | China

🧠 SKILLS

Programming Languages

JavaScript, Python, C#, C

Libraries & Frameworks

React, Angular, Node.js, Typescript, Next.js, Flask

Database & Tools

MongoDB, PostgreSQL, Redis, AWS, Git, Pytest, Docker

UI/UX Design

Figma, Tailwind, Mui, Mantine

Languages

English, French

📁 WORK EXPERIENCE

Senior Software Engineer

RIGOL

2023.10 – 2025.01 | Suzhou, China

- Execute test cases and analyze results using Python to ensure devices, such as oscilloscopes and waveform generators, meet all functional and performance requirements.
- Integrate Allure with Pytest and Jenkins to provide real-time feedback and detailed reporting on software tests (500 test cases). Use GitLab's built-in CI/CD features to manage code, test cases and documentation.

Senior Full-Stack Engineer

Saks Fifth Avenue

2023.05 – 2023.10 | Suzhou

- Remote work for US-based luxury store Saks Fifth Avenue, act as a full-stack technical expert on the DevOps team, participate in the optimization of core product modules, assist in solving various technical problems for Saks OFF5TH website, perform web and mobile debugging based on JavaScript, and enhance development efficiency and code quality.
- Analyze source code based on SEO and Marketing feedback (including tags, sCode, server call types, cookies, link tracking, etc.) and partake in front-end stability construction, including performance optimization, automation testing, and resolving compatibility issues.
- Enhance search algorithms and recommendation systems, and collaborate with LogRocket to improve user behavior recording and analysis.

Advanced Senior Test Engineer

Honeywell

2016.12 – 2023.01 | Suzhou, China

- Spearheaded the development and launch of Honeywell's product application websites (using React, TypeScript, and MongoDB), and conducted functional testing using Jest. Implement product information retrieval and resolve user issues.
- Independently designed and developed test tools for Honeywell's products (scanners, mobility phones and printers) using C# and Python, while maintaining the old Intermec service tool in C.
- Write Test Plans, define Test Scenarios and Test cases for mechanical engineers, maintain test scripts and analyze bugs, interact with the development team, and track the bugs till closure.
- Designed and developed smart tools for global QA engineers and technicians to boost the efficiency of product technical support.

Senior Software Engineer

Jiangsu IOT Research and Development Center

2012.12 – 2016.12 | Suzhou, China

- Utilized NodeJS to develop a 3D interactive geospatial information web application based on Cesium and ThreeJS to ensure consistent user experience on both desktop and mobile platforms.

HIGHLIGHTS

- As a developer with more than 14 years of experience in both synchronous and asynchronous channels, mastered a lot of intangible skills, including solving, multitasking, adaptability, effective and clear communication.
- Critical thinking when selecting different technical stacks and libraries, fully balancing practical customer requirements and runtime performance.
- Implement visual solutions for customer data application and analysis, focusing on functional module testing and website security.

- Employed C# and PostgreSQL to develop a desktop geospatial information big data platform to analyze and display scientific data based on geographical information.

Software Engineer

Nanjing Institute of Electronics and Technology

2010.04 – 2012.12 | Nanjing, China

- Developed a distributed resource information-sharing platform using .NET and Web Services and enabled the transmission of server response XML/JSON data via RESTful API.
- Developed a distributed data fast transmission platform utilizing .NET and independently developed a cloud storage system (cloud drive) using Dokan. NET.

PROJECTS

Ecommerce Website

2025.01 – 2025.04

- A full-featured e-commerce website built with Next.js 15, TypeScript, PostgreSQL, and Prisma.

Personal Portfolio Website

2023.04 – 2023.05

- A deep passion for visual design and a love for simplicity, beauty and balance, gathering my latest work.

Video Sharing Website - Game Clips

remote project

2023.01 – 2023.03

- Developed full-stack commercial websites, achieved two-way binding using Angular, RxJS, TypeScript, and Tailwind, enabled end-to-end testing using Cypress.
- Managed and released full-stack development code using Bitbucket.

Social Media Website - Dev Overflow

remote project

2023.03 – 2023.05

- Developed a social media platform using Nextjs, TypeScript, Prisma, Clerk, Shadcn, Zod, TinyMCE, and MongoDB.
- Built-in badge system for earning badges and Global searching and filtering.

Honeywell's Internal Interactive Website

Honeywell Service Product Lightbox

2021.05 – 2022.06

- Independently designed and developed Honeywell's internal technical support service resource guide website, and devised guided resource search services based on customer needs and feedback.