

Summary

- “ 20+ years experience in research and development with a proven track of records of design and implementing mission-critical systems from lab to production.
- “ 10+ years experience designing and implementing full-stack application. Specialize in HA & high scalability architecture, relational data modeling, Python Django backend, ReactJS frontend, RESTful interface & integration, responsive/mobile-ready UI.
- “ 10+ years experience in working closely with customer and project stakeholders to balance product requirement, delivery quality, and financial success.
- “ 10+ years experience in building and leading top engineering talent and high-performance product engineering teams. Well rounded knowledge and skill in managing teams and projects, interfacing with executive and client, handling product requirements, and mentoring junior staffs. Familiar with methodologies including Agile, waterfall, Extreme, and PM tools such as Jira and Trello.
- “ 10+ years experience leading projects with a global team (China, Europe, India, US) and remote management. Familiar with its challenges and mitigation.
- “ Deep understanding of software development cycle (SDLC) including git workflow, code quality control, and security vulnerability auditing. Built a full end-2-end CI/CD pipeline using Jenkins, Docker and Ansible from the ground up.
- “ Expert in SOA, MVC, microservice architecture and container technologies. Fluent with Docker, LXC/LXD, and docker-compose.
- “ Expert in Infrastructure-as-code(IaC) technologies (Ansible, Helm, Terraform). Led design and development of Lenovo's IaC solution — [Lenovo Open Cloud Automation](#).
- “ Fluent in Python, Django, ReactJS, Material UI. Expert in data modeling. Expert in building data-driven full-stack application from the ground up. Experienced with data ingestion, RESTful API design & integration, data processing, data visualization, and ML.
- “ Extensive hands-on experience in cloud-native technologies, build and manage highly available, highly scalable applications and microservice on hybrid/public cloud (AWS/Azure/GCP) and private cloud (OpenStack).
- “ Top presentation skill.

Experience

11/2016 - present Lenovo US, P9, Senior Solution Architect, Team Lead

- “ Principal architect of the [Lenovo Open Cloud Automation](#) solution. Author of its reference architecture. Led a global team of twelve developers from design to implementation. The product won a \$100M contract in its first year.

- “ Author of the [Red Hat Hyperconverged Infrastructure \(RHHI\) Reference Architecture](#). Principal architect and primary code contributor of RHHI's automated end-2-end deployment.
- “ Principal architect of the Lenovo Workload Solution Store (WSS). Its orchestration technology forms the core of the ThinkAgile VX product line.
- “ Seed member and principal system architect of the ThinkAgile CP product, a private cloud solution. Played a key role in third-party IP evaluation and acquisition. Led UI/UX team of five and DevOps team of four in six major releases and production deployment to AWS and Cloudflare.
- “ Principal architect of Lenovo's Datacenter Inventory Management System (DCIM), and is the top code contributor to it.
- “ Collaborated with Lenovo's OpenStack team in defining the “Lenovo OpenStack Reference Architecture” and “Lenovo Ceph Reference Architecture” by providing design feedback, code review and DevOps automation.
- “ Led team in containerization Lenovo's ML application used by medical research and high education. Reduced deployment cycle from six hours to thirty minutes.
- “ Designed and developed a full-stack web application integrating Gitlab and Atlassian, providing visualization to PM tracking a requirement throughout SDLC from Jira to deployment.
- “ Support pre-sale and customer engagements, RFPs as an SME in the area of containerization, microservice design pattern, cloud native solution, SDLC, DevOps, CICD, and orchestration.

01/2015 - 11/2016 PY Consulting, Founder & Consultant

- “ Engaged the World Bank's “Digital Development Partnership” program, and built the [World's Snapshot](#), a data-driven ReactJS application featuring API integration with the World Bank and the DHS, and visualization using eight different Javascript-based charting tools.
- “ Engaged “Wei Fashion Group”, a Shanghai showroom company specializing high fashion import and distribution with subsidiaries in US, Europe and China. Designed and built its e-commerce store, [inventory management system, and invoice & order tracking system](#).
- “ Engaged “Shang Xue Tang”, a Beijing high education service company. Built a [full-stack application](#) serving its core business with RESTful API, data streaming, chat room, and forum.
- “ Engaged “Linkage”, a Shanghai startup specializing OD00(OpenERP) module development. Led business analyst and engineering team to two releases. Grew customer base by 200%. Architected its “2016-17 Technology Roadmap”.
- “ Engaged a US financial startup specializing quantitative trading. Built the [SP500 Analysis](#), a Django full-stack application, with data ingestion from Yahoo!Finance, Alpha Advantage.

11/2013 - 01/2015 Beijing Lean Strategy Consulting Group, Director

- “ Led RFP of a \$3M contract with a Fortune 500 company. Responsible for P&L.
- “ Architected the system design and its implementation including selecting business partnership and outsourcing. Supervised on-site deployment and training.

- “ Doubled engineering team over one year. Established training and mentoring program.

07/2010 - 11/2013 CrunchTime! Information Technology, Project Manager

- “ Led business engagement with Yum!China in a \$10M RFP. Responsible for P&L. Led business analysis, scoping requirements, and customer training.
- “ Led development of the company’s Customer Portal in Salesforce. The portal won Bronze prize of the “2011 Steve Awards for Sales & Customer Service” award.
- “ Led team designed and built the company’s first mobile application prototype using Cordova, HTML5 and jQuery Mobile.
- “ Initiated and led team build CICD using Jenkins, Selenium, and Python.

04/2009 - 04/2010 China Everbright Bank, Business Manager

- “ Managed two rounds of vendor invitation-for-bids. Responsible for a \$2M RFP of core business system.
- “ Managed BA department. Responsible for due diligence and loan application review.
- “ Built a new IT branch from the ground up.
- “ Led negotiation with vendor. Worked closed with executives.

04/2004 - 05/2007 Bit 9 Inc. (Carbon Black), Tech Lead

- “ Led security research of Windows NT kernel. The research won \$6M A-round VC.

07/1998 - 04/2004 Instron Corp., Senior Engineer

- “ Designed and implemented core module of its new impact testing line. Sales reached \$1M in the first year.

Education

- “ MBA, (04/2007 - 09/2008), Boston University
- “ M. Sc., (09/1995 - 05/1997), Ohio University
- “ B. Sc., (09/1990 - 07/1994), Shanghai JiaoTong University, China

Sample writings & projects

1. <https://lenovopress.com/lp1148-red-hat-hyperconverged-infrastructure-for-virtualization-reference-architecture>
2. <https://lenovopress.com/lp1149-lenovo-open-cloud-reference-architecture>
3. <https://fengxia41103.github.io/stock/>
4. <https://github.com/fengxia41103/worldsnapshot>