

Jun Chen

Senior Software Engineer

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PROFESSIONAL SUMMARY

Senior backend engineer with 10+ years building distributed systems, data platforms, and cloud infrastructure. Most recently shipped Go REST APIs for an IoT smart-lock platform at Janus International (Noke). Deep experience in functional programming (Go, Scala), real-time streaming at 300K events/sec, and cloud tooling (AWS, Terraform, Kubernetes).

EXPERIENCE

Janus International (Noke)

Senior Software Engineer *Lehi, UT | September 2023 - April 2026*

Senior backend engineer on the SmartEntry IoT smart-lock platform — 40+ Go microservices powering access control for self-storage facilities nationwide.

- Contributed across the end-to-end device pipeline — firmware provisioning, gateway routing, command dispatch, core business logic, and event notification — spanning AWS (RDS, SSM, Lambda, API Gateway).
- Unified Sitelink and Breeze PMS integrations behind a generic Unit/Tenant abstraction, eliminating duplicated client code across both adapters.
- Improved SmartEntry core reliability: added site-timezone and outage caching; normalized inbound event data to remove downstream parsing inconsistencies.
- Remediated high-severity pentest findings across 7+ Go services — profiler endpoint exposure, production goroutine leak, JWT CVE, CORS misconfiguration, and password policy gaps.
- Built team-adopted **automated test infrastructure** (Playwright e2e, 160+ specs across 5 role tiers) and a **k6-based perf framework** exercising 100–2,000 concurrent users against production-scale fixtures.
- Extended the React portal with a new installed-sites UI and Sentry-based frontend observability (third-party error filtering).

BMW China Services, Ltd.

Senior Software Developer *Shanghai | November 2020 - June 2023*

- Implemented daily ML batch job for the Pothole Warning pipeline on AWS in Python, improving detection accuracy for the connected-car fleet.
- Designed and built the Road Clearance pipeline integration test suite from scratch, converting ad-hoc road geometry data checks into a specific, maintainable test harness.
- Automated the Pothole Warning infrastructure with Terraform, reducing manual deploy overhead and eliminating configuration drift across environments.

Qianxun Spatial Intelligence, Inc.

Senior Software Engineer *Shanghai | August 2017 - October 2020*

- Core contributor on the corporate monitoring platform team; shipped an automated analytics engine that significantly reduced manual data-quality tracking across the satellite feed.
- Implemented a distributed data-collection system supporting arbitrary SNMP, ping, and Telnet probes across hundreds of machine nodes.

- Built streaming applications processing 300K events/sec to derive minute-level operational metrics; contributed core transform-and-distribute modules to the metrics pipeline.

C.H. Robinson Worldwide, Inc.

Java Developer *Shanghai | January 2015 - April 2017*

- Maintained the Asia-Pacific export/consolidation system and developed an EDI shipping platform for major shippers in Greater China.
- Re-architected the U.S./China batch RPC exchange, resolving a long-standing performance bottleneck in shipment-notice processing.

Gemalto Technology Shanghai Co., Ltd.

Perso Engineer *Shanghai | 2013 - 2014*

- SIM card personalization on .NET.

University of Miami

Database Analyst *2011 - 2012*

- GPS Android app + geospatial web UI.

University of Iowa

Research Assistant *2010 - 2011*

- C++ Range-Tree for Time-Space Kriging; Python/C NASA HDF processing.

ICTS, University of Iowa

System Administrator *2009 - 2010*

- Puppet modules across 200 nodes; RHEL Kickstart CGI.

SKILLS

- **Languages:** Go, Scala, Java, Python, TypeScript, SQL, Shell
- **Backend:** REST APIs, microservices, Spring Boot, Akka
- **Cloud & Infra:** AWS, Terraform, Docker, Kubernetes
- **Data:** MySQL, PostgreSQL, MongoDB, Redis, Spark

EDUCATION

- **Master of Science in Informatics**, University of Iowa (2009-2011)
- **Bachelor of Arts in Public Finance**, Fudan University (2004-2008)