

Xian Kai Ng | Software Engineer

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Academic Qualifications

University of California Los Angeles

GPA: 3.9 / 4.0 • **Summa Cum Laude** • B.S. Computer Science • Dec 2019

Employment Experience

- Tesla** **Palo Alto, CA**
Feb 2020–
 - *Senior Software Engineer*
 - Certificates backend for ISO 15118 Plug and Charge (opening Tesla chargers PnC function to many OEMs)
 - Reduced database connections by 100x. Reduced latency on 20K+ qps customer facing endpoints from 5.0s to 0.5s.
 - Cloud profiles primary backend engineer; MongoDB-backed, end-to-end encrypted
 - Re-architect Vehicle List indexing to allow 10*100x (1000x) scaling by parallelizing across lists*vehicles (Elasticsearch, Redis)
 - Re-architect OTA update log ingestion to go via Kafka to scale to 100x fleet size; rewrote Ruby to Go
 - Zero-downtime upgrade of 5-year-old Elasticsearch
 - DevOps (scaling, monitoring, on-call) for 10+ distributed services hosted on multiple regions and clusters of Kubernetes
- Appfolio** **Goleta, CA**
Jun–Sep 2019
 - *Software Engineering Intern*
 - Parallelized core architecture for 50% speedup of tenant screenings, 2nd highest income driver
 - Reworked 7 year old core front-end (screenings report) for modern design and legal compliance
 - Regenerated PDFs of reports in their original code version (!important)

Reference: Eric Hawkins
- Procore** **Carpinteria, CA**
Jul–Sep 2018
 - *Software Engineering Intern*
 - 4x Database time reduction at scale (65k+ items)
 - 100K+ item, low latency search in npm @particles Select components

Reference: Ben Coffman

Selected Projects

- Ball bouncing simulator (Java) • Gravity balls & explosive balls too
- Navigator (C++) • A-star algorithm; LA map data

More About

- Won UCLA's undergraduate writing award (3 of 12,000 win) • On the Ethics of Transhuman Relationships
- I do Wushu (武术) • USA Collegiate Wushu Champion

Languages, Tools, Buzzwords

Google • Bash • UNIX • C • C++ • Go • Git • HTML • CSS • JavaScript • MongoDB • Devops • Kubernetes • PostgreSQL • ReactJS • Ruby on Rails • StackOverflow • AWS • Machine Learning • Blockchain • Mentorship

Revised: Apr 25, 2023