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**
Senior Software Engineer — *Feb 2020–*
- 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 scale to 100x fleet size; rewrote Ruby to Go, leveraged Kafka
- Zero-downtime upgrade of 5-year-old Elasticsearch
- Remotely ramped up

Appfolio — **Goleta, CA**
Software Engineering Intern — *Jun–Sep 2019*
- 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**
Software Engineering Intern — *Jul–Sep 2018*
- 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
- Text reminder for calendar (AWS, MEAN) • Designed to help World Relief

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++ • Golang • Git • HTML • CSS • JavaScript • MongoDB • NodeJS • Java •
PostgreSQL • ReactJS • Ruby on Rails • StackOverflow • AWS • Machine Learning • Blockchain • Mentorship

Revised: Nov 10, 2023