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–*
  - Cloud profiles primary backend engineer; MongoDB-backed, end-to-end encrypted
  - Re-architect Vehicle List continuous indexing to allow 100x scaling from by parallelizing across lists*vehicles
  - 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