

# Mark Tai

Coding for work and fun

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ADDRESS: Digital nomad now

## SUMMARY

- Well-rounded senior engineer with numerous passions who adapts easily and works well with others
- Experienced in: developer infrastructure, full stack web, security, mentorship, [board games](#), [traditional jazz](#)

## WORK EXPERIENCE

- JAN 2023 - ONGOING | **interviewing.io, Professional Technical Interview Coach:** All around the world!
- Coached 50+ mentees to build interviewing skills and confidence to land FAANG+ offers
  - Featured on [interviewing.io showcase](#), and new mentees have booked me from this page
  - [\\$560 per session](#) on interviewing.io, and pro bono for UCLA students + disadvantaged students
  - Composed [own platform](#) for pro bono coaching with [scheduling](#), [Slack](#), and [code environments](#)
- JUL 2018 - SEP 2022 | **Airbnb, Senior Software Engineer on CI Infrastructure:** San Francisco, CA
- Improved Java monorepo's enqueue to merge time by 60% on Evergreen merge queue system
  - Coordinated and migrated all monorepos to Evergreen system, and fully removed old solution
  - Architected and coordinated 100% consolidation onto the CI Platform for both Linux and iOS envs
  - Architected and built Test Levels data aggregation and dashboard that all Airbnb orgs adopted
  - Coordinated Developer Platform and architected both measures and charts of productivity metrics
  - Architected and built monolith's new test executor, parallelized with 30 instances and 20 processes
  - Improved CI Platform reliability: reduced incidents by 67% and improved 99% to 99.7% uptime
  - Won several [CTF security competitions](#): team discovers and exploits security vulnerabilities
- MAY - AUG 2017 | **Airbnb, Software Engineering Intern on CI Infrastructure:** San Francisco, CA
- Created new CI workflow using Docker environments rather than separate AWS environments
  - Over next 2 years, my intern project was extended by CI Infra to become Airbnb's CI Platform
- OCT 2016 - MAY 2017 | **PlayFull - 8 people startup, Software Engineer on all products:** Los Angeles, CA
- Built responsive homepage [beplayfull.com](https://beplayfull.com), working with the CEO / designer
  - Made full stack, responsive, live dashboard, and met with business customers to onboard
  - Created app for interactive, in-store Raspberry Pi displays shown at every customer restaurant
  - Managed 2017 internship program: interview process, candidate selection, onboarding
- JUN - SEPT 2016 | **Facebook, Software Engineering Intern on Ads Targeting Product:** Menlo Park, CA
- Improved ad creation flow search dropdown with full stack web
  - Analyzed usage data and learned user behavior to deliver best customer product
- SEPT 2015 - JUN 2018 | **UCLA Tau Beta Pi - Engineering Honor Society, Vice President and Web Lead:** UCLA, CA
- VP - managed 15 people: tutoring, midterm review, school outreach, web, and social officers
  - Web - led team of 3 to maintain full stack website + email server and migrated to AWS
  - Conducted weekly free tutoring for computer science and other engineering classes

## EDUCATION

- SEPT 2014 - JUN 2018 | **University of California, Los Angeles: Computer Science**
- GPA: 3.8/4.0, cum laude; participated in: [UCLA Devx](#), [ELFIN](#) Satellite, [UPE](#) web chair, [IEEE](#)

## FUN PROJECTS

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|---|--|
| BLOG - <a href="https://marktai.com">MARKTAI.COM</a>              | My travel, passions, and tech blog + email server I've maintained since 2015   |
| BOARD GAME - <a href="#">MOOTROPOLIS</a>                          | Developed a unique board game with custom art during the pandemic  |
| WEB GAME - <a href="#">CLOVER</a>                                 | Ported <a href="#">So Clover!</a> to a website, and played over 250 times with friends   |
| AUTHENTICATION - <a href="#">SERVICE</a>                          | Modern techniques: bcrypt password hashing, time + user secret + URL HMAC  |
| JAZZ - <a href="#">ARRANGEMENTS</a>                               | Arranged a <a href="#">5-part a capella</a> for my family, and 50+ more at <a href="https://music.marktai.com">music.marktai.com</a> |
| JAZZ - <a href="#">CHORD PRACTICE</a>                             | Website for my mom and sister to learn jazz piano to play with me on sax   |
| PARTY - <a href="#">CHARITY CASINO</a>                            | Hosted a charity casino night with <a href="#">inclusive rules</a> and raised \$940  |
| COCKTAILS - <a href="https://24hourlimes.com">24HOURLIMES.COM</a> | Devised own custom cocktails and card game menu to order from  |