Alexander Chia

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PROFILE

Full stack engineer/manager and startup CTO. Formerly at Andreessen Horowitz, Google, Teza (Algo Trading), and Square Enix (Game Dev, 3D Rendering). Top 5 Worldwide for Algorithms (ACM, Microsoft ImagineCup).

Completed CS degree from CMU in a record 2 years Summa Cum Laude.

Interests: Algorithms, Mobile, Computer graphics, AR/VR, Statistics, Crypto, AI, Venture Capital.

EXPERIENCE

Google Inc.   **Tokyo, Japan**
Software Engineer   *Aug 19 - Present*

- Team lead for > 6 engineers - launched the iOS 14 search widget, led product exploration discussions for a 'delightful' widget experience. Scoped and delegated features to engineers and launched all - Doodles, skinnable widgets, widget data publishing pipelines, visual element logging for SwiftUI. Increased Google App DAU by >6%
- Led entire code quality effort for iOS widgets; Coach and mentor Googlers ramping up in iOS
- Team lead - designed and launched new signal in search indexing pipeline (and associated data aggregation services) that penalizes slow or badly designed sites for search ranking. Managed the project, getting buy-in from stakeholders in 5 different regions. Researched and published key web speed metrics (https://web.dev/metrics/) for ranking signal.

OpenToken Inc.   **San Francisco, CA**
Software Engineer   *Jan 18 - Dec 18*

- Designed, implemented and shipped a brandable embeddable contribution modal for third party websites to run their own token sales with OpenToken infrastructure.
- Implemented automated accreditation via signed cryptocurrency messages.
- Cut time taken for crypto distributions/refunds by 70% with new APIs/dashboard for syndicate operators.

Aerro Pte Ltd   **Singapore**
Founder   *Jul 16 - Dec 17*

- Created a novel search and aggregator service and mobile app for award flights redeemable with frequent flyer miles.
- Written with React Native + Redux. Partnerships with local startups and rewards services.

Andreessen Horowitz (a16z), *Partner, Investment Team*   **Menlo Park, CA**
Earn.com (acquired by Coinbase), *Founding Engineer*   *Jan 14 - Jun 16*

- Technical due diligence and advice to General Partners at a16z for Crypto and Enterprise investments. (Coinbase, DigitalOcean, Earn.com etc)
- Built a smart bot that interacts with founders via emails and collects data for VC funnel - greatly increased productivity for partners, and spawned original metrics used to evaluate quality of funding decisions.
- Earn.com: Team lead - Designed, built a scalable framework for automated bitcoin machine to machine API payments.

Teza Technologies   **Chicago, IL**
Quant Developer (High Frequency Trading)   *May 12 - Jun 13*

- Worked together with Quants to incorporate researched signals into usable strategies for high frequency trading.
- Designed and automated execution frameworks, strategies, and simulators.
- Utilized hadoop for quant research/simulations and jQuery/JS frameworks for data visualization.

Square Enix Co. Ltd.   **Tokyo, Japan**
Researcher   *Sep 09 - May 10*

- Wrote global illumination algorithms for high speed rendering on massively parallel architecture (GPGPU) with CUDA/OpenCL. Sped algorithms up by 50-300x.
- Used stochastic and numerical techniques (Monte Carlo methods with importance sampling etc.) for novel work on photorealistic rendering in real time for a variety of platforms.

Google Inc.   **Mountain View, CA**
Software Engineer Intern   *Summer 08*

- Wrote scene graph parser, renderer for the O3D project. Coded official samples and automated testing with Selenium.

EDUCATION

Stanford University   **Stanford, CA**
M.S. Computer Science   *Sep 10 - Mar 12*

Carnegie Mellon University   **Pittsburgh, PA**
B.S. Computer Science, Minor in Economics, **GPA 3.86/4.0**   *Aug 07 - May 09*

HONORS

- **Mr Chilly** Grew my own iOS weather app to 5-10k DAU; featured in sfist, thrillist, bayarea.com

- **Microsoft Imagine Cup 2007 - Algorithms** Worldwide Top 6
- **ACM ICPC Regional Finals East Central 2008** Top 5 (Represented CMU)
- **International Game Developers Association** President, Singapore Students' Chapter
- **National Software Competition 2004** 1st
- **National Olympiad for Informatics 2004** Gold

SKILLS

- **Tech:** React.JS, Redux, React Native, Git, Heroku, AWS, MongoDB, Redis, MapReduce/Flume
- **Programming:** Javascript, Swift, Java, C++, Python, R, C#, Objective-C, asm
- **Languages:** English (Native), Mandarin (Fluent), Japanese (JLPT N3)