Alexander Hoekje List

portfolio http://alist.github.io
email alist@alum.mit.edu
engineering C++, Swift, Node.js, Obj-C, Java, Python, Eagle CAD

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Experience

Technical Lead, iOS Ideaflow Inc.

5/2017 - Current

- Implemented text storage refactor by developing a formal grammar and parser.
- Led interviews and onboarding, established continuous integration.

Undergraduate Researcher MIT Programming Languages Group 1/2017 - 3/2017

• Analyzed SoftBoundCETS C pointer safety system. Documented control flow for this LLVM compiler pass.

Node.js, C++ and Blockchain Engineer MANNA Inc.

6/2015 - 01/2017

- Implemented algorithm optimizing drone flight paths over airspace of individual property holders. Properties are registered in smart contracts on a blockchain.
- Engineered MANNA's distributed blockchain servers and API server.

iOS for Designers Instructor Codepath Inc.

5/2015 - 7/2015

- Gave lecture, ran study sessions, wrote tutorials, guided group projects and solved 100s of bugs for twenty designers from Facebook, Uber, Instacart and Pinterest.
- Empowered designers to implement their designs as native iPhone applications.

iOS Engineer Gigster Inc., E55 Inc.

4/2015 - 2/2016

- Built realtime navigation module with off-route detection and Dijkstra route optimization for kids' carpool App. Mentored a junior engineer on code patterns.
- Developed two social media applications with pictures and video.
- Engineered a low-dependency Objective-C framework containing image recognition APIs for iPhone Apps, enabling E55's customers to integrate in under an hour.

CEO and Co-founder Headtalk Inc.

1/2014 - 9/2015

- Raised \$140k in venture capital, participated in Techstars' Boston accelerator.
- Engineered usemagnet.com, PCBs and the iPhone App for Magnet bracelet.
- Led team of three engineers and three designers to deliver Apps for Android and iOS, two wearable devices and a Kickstarter campaign.
- Arranged Headtalk's acquisition in September 2015.

Wearable Nonverbal Communication MIT AI Research

12/2013 - 9/2015

- Created way to use wearable devices to communicate nonverbally through EEG, Apple Watch, Pebble, iPhone and Magnet bracelet.
- Enabled "telepathy" by applying Coen's Multimodal Perception AI to wearable devices, in a framework combining multiple wearables to reduce false positives.

Swÿp MIT Media Lab, Fluid Interfaces Group

9/2011 - 12/2012

- Created Swÿp allowing files to be dragged between touch screens.
- Engineered send-ahead thumbnail system to improve UX during payload transfers.
- Led three engineer team to Sponsor Week, delivering seven articles in the press.

Co-founder ExoMachina Inc.

1/2009 - 12/2013

- Led two engineers for Domo, a website mapping struggling MIT students' questions with advice from peer volunteers, delivering in time for finals.
- Built the paid Fibromyalgia App with clinical psychiatrist co-founder, helping hundreds of people suffering from the chronic pain disorder track their symptoms.

Achievements	Apple Design Award, Recipient for Mosaic.io Bump API contest, Honorable Mention for peer to peer payments with a bun Top-20 Navigation App on App Store, PlaceBook, Developer	6/2013 ap. 2/2010 1/2009
Education	MIT: Bachelor of Science in Computer Science	2011 - 2017
Selected Courses		2017 2016 2012 - 2013 2006 - 2008
Continuing Education	MIT: Introduction to Computer Graphics (ft. C++, linear algebra and OpenG	GL) 2017