

# Patrick Li

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## EDUCATION

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**University of Pennsylvania, Jerome Fisher Program in Management and Technology**

Expected Graduation May 2023

- *School of Engineering and Applied Science*: BSE in Computer Science
- *The Wharton School*: BS in Economics, Concentrations in Statistics and Management

**Saratoga High School**, 4.4 GPA Weighted, Very High Honors

## EXPERIENCE

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**Research Intern, Vanderbilt University**

June 2018 - August 2018

*Guidance by Dr. Bradley Malin and Dr. You Chen*

- Conceptualized, designed, and architected a decentralized network for a prescription management system across health institutions to improve interoperable patient medication history tracking and prescribing.
- Built proof of concept on Hyperledger Fabric network and Angular client. Wrote manuscript on archetype and published in *Blockchain in Healthcare Today (BHTY)* journal. Presented at 2018 AMIA Symposium.

**HACKcelerator 2017 Bach, AngelHack**

August - October 2017

- Won 1st place at "AngelHacks Silicon Valley", earning a place in AngelHack's accelerator program (top 20 teams out of 1400 world wide)
- Bootstrapped an early stage startup around creating an ecosystem of augmented reality geo-pins for consumer navigation
- Wrote executive summaries, created pitch decks, marketed products, and various other early stage startup obstacles
- Pitched to investors from 500 startups, AngelPad, Y Combinator, and TechCrunch at Global Demo Day, received \$20,000 in funding

**Software Engineering Intern, Intertrust Technologies Corporation**

June - August 2017

- Read and modified byte code using static disassemblers (OllyDbg, IDA Pro, Hopper).
- Patched Android and iOS applications using Hopper, LLDB Debugger, and Cycript
- Built mobile note-taking applications for encryptions and reverse-engineering testing
- Implemented industry standard encryption techniques in anti-debug, jailbreak protection, integrity checks, and control flow obfuscation
- Documented WhiteCryption products for marketing and resources

**Mobile Developer, NFlate Inc.**

June - August 2016

- Built the mobile E-commerce product end to end with technologies like AWS Elasticsearch, Elastic Beanstalk, and DynamoDB
- Integrated application with ViSense visual commerce API
- Implemented asynchronous queries for image similarity searches.

**Co-Founder, DaliLabs, Inc.**

November 2015 - Present

*Mobile application development firm*

- Led efforts in developing all kinds of applications from smart alarm clocks to monetized products based on market trends.
- 100,000+ users across all applications

## RESEARCH AND PUBLICATIONS

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**P. Li**, S. Nelson, B. Malin, and Y. Chen, "DMMS: A Decentralized Blockchain Ledger for the Management of Medication Histories", *Blockchain in Healthcare Today*, vol. 2, Jan. 2019.

A. Gupta, D. Bessonov, and **P. Li**, "A decision-theoretic approach to detection-based target search with a UAV," *2017 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, Vancouver, BC, Canada, 2017, pp. 5304-5309

- Optimizing real-time UAV target search with sequential algorithm using partially observable Markov decision making processes
- In simulations, drone finds target 3.4 times faster compared to a heuristic policy
- Built a DJI F550 hexacopter fitted with a 3DR Pixhawk Flight Control System and Raspberry Pi connected to a 1080p camera.

## HONORS AND AWARDS

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| • AngelHack Global Demo Day, earned a place in the 20 finalist teams out of 1400 teams world wide, \$20,000 in funding | October, 2017   |
| • Invited to 2018 American Medical Informatics Association (AMIA) Symposium to present paper                           | September, 2018 |
| • Apple 2016 WWDC scholarship (10% acceptance rate from applications globally)   | June, 2016      |
| • LA Hacks 2019 second place overall (out of 300 teams), Capital One best overall Financial Hack                       | April, 2019     |
| • AngelHacks (Silicon Valley) 1st place overall (out of 100 teams)   | July, 2017      |
| • LA Hacks 2017 winner of \$2000 1517 grant (out of 300 teams)   | April, 2017     |
| • SV Hacks winner of Uber prize and 3rd place overall (out of 60 teams)  | February, 2016  |
| • Sense360 Hackathon 1st place overall   | June, 2015      |

## SKILLS

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- Languages - Swift, Java, C++, OCaml, Python, Javascript, HTML/CSS, C#
- Platforms - Xcode, Firebase, Android Studio, Flutter, React Native, Angular JS, Photoshop, Hopper, Machine Learning