





# Anne Kim

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## Education

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### Massachusetts Institute of Technology: Master of Engineering

June 2017 – Jan 2019

- *Masters in Computer Science and Molecular Biology* (GPA 4.6/5.0)
- Thesis with Alex “Sandy” Pentland (MIT Media Lab) on Clinical Trial optimization using Open Algorithms (OPAL) audited by the blockchain. Thesis work has been recognized by the IEEE “[Blockchain for Clinical Trials](#)” conference, MIT’s School of Engineering “[Engineers Revolutionizing Health Care](#)” symposium, and the [Blockchain in Healthcare conference](#)
- Teaching Assistant for Introduction to Computer Science, Programming, and Data Science
- [arXiv Preprint: Extractive Summarization of EHR Discharge Notes](#)
- [arXiv Preprint: Genie: A Secure, Transparent Sharing and Services Platform for Genetic and Health Data](#)

### Massachusetts Institute of Technology: Bachelor of Science

Sept 2012 – June 2016

- *Bachelors in Computer Science and Molecular Biology* (GPA 4.7/5.0)

## Experience

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### Secure AI Labs: Co-Founder and *Chief Technology Officer*

July 2018 – Present

Privacy preserving analytics platform to protect data and algorithms used in health informatics

- Architects and manages platform
- Assists co-founders in fundraising and customer onboarding
- Advises EFF and ACLU cyber-biosecurity groups
- [DEF CON 2018](#), [WEF Davos 2019](#), [Imagination in Action 2019](#), Harvard Health Catalyst Panel

### Genetank: Co-Founder and *Chief Executive Officer*

Jan 2018 – July 2018

A decentralized disease risk prediction platform to share profit via smart contracts to provide transparency, security, and equitable remuneration to individuals who contribute their genotypic and phenotypic information.

- Project supported by MIT’s Sandbox initiative, and selected by Creative Destruction Lab (CDL) as well as MIT-CHIEF (China Innovation and Entrepreneurship Forum)
- Led legal proceedings, collaboration deals, investor meetings, and conferences (CDL, MIT-CHIEF)
- Engineered bioinformatics platform for ancestry admixture and visualization python, R, token operations through smart contracts initializing machine learning model updates and training (solidity, javascript)

### MIT Tidor Lab for Computational and Systems Biology: *Researcher*

Mar 2017 – June 2017

- Designed computational chemistry experiments with quantum mechanical methods in QChem with visualized results in PyMOL to discover enzymatic transition-state representations in numerical saddle-points that were consistent with quantum chemical theory

- Modeled viral capsid assembly as a biological network with ordinary differential equations in KroneckerBio MATLAB package. Project showed promise for method of discovering antiviral drugs.

Sept 2015 – June 2016

### Genexine: *Business Development Intern*

Aug 2016 – Dec 2016

- Researched current biotechnologies, organized findings, and presented conclusions on current market trends and business development strategies in both English and Korean
- Modeled valuation on a non-existent market for company’s novel immunotherapy for persistent HPV infections, which lead to a successful grant proposal that funded a phase I clinical trial (\$10 million)

### Medidata Solutions: *Software Engineering Intern*

June 2015 – Aug 2015

- Engineered streaming data platform using Amazon Web Services’ (AWS) Kinesis, which streamlined backend architecture for greater speed, storage, and analytics on data from wearable devices in Ruby.

### Guidewire Software: *Software Engineering Intern*

June 2014 – Aug 2014

- Engineered internal Release Dashboard to update development team on platform software release schedule to improve agile development and to use on customer tours. Project used a microservices architecture for scalability and RESTful framework for asynchronous handling in Java.

### MIT Gifford Lab for Computational and Systems Biology: *Researcher*

Sept 2013 – Mar 2014

- Analyzed genetic data on the differentiation of pancreas progenitor cells using Python in order to visualize transcription factor interactions to help in the treatment of pancreatic diseases.

## Leadership and Activities

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DEF CON: *Speaker and Organizer*

July 2018 – Present

London Marathon 2018: Selected by St. Jude Children’s Hospital (6 from 900) for Blockchain charity

Oct 2017 – Apr 2018

MIT Eta Kappa Nu (HKN National Honor Society for CS and EE): *Honor Student*

Sept 2015 – Jan 2019

MIT Women’s Varsity Lightweight: *Rower on First Varsity Eight*

Sept 2012 – June 2016

Society of Women Engineers: *Internal Mentorship Chair*

Sept 2012 – June 2016

MIT Sigma Kappa: *Sister*

Sept 2013 – Present