

# Allen M. He

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## EDUCATION

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**University of Pennsylvania**, Philadelphia, PA (**GPA: 3.95/4.0**) May 2019  
M.S.E/B.S.E. candidate for Computer Science, sub-matriculation dual degree in four years  
Dean's List 2015-2018

Selected coursework: Databases, Big Data Analytics, Networks & Security, NLP, ML

## PROFESSIONAL EXPERIENCE

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**Software Engineering Intern – Oscar Health** Summer 2018

- Designed and implemented full-stack real-time notification center for Oscar's most trafficked site, used by Oscar care guides to service members.
- Built platform to deliver new feature updates to care guides, interfaced with cloud CMS. Replaced sending hundreds of email updates per year to each care guide.
- Worked in agile environment with weekly sprints, retros, standups, and one-on-ones.

**Technology Development Intern – National Museum of Mathematics** Summer 2017

- Digitalized a popular exhibit into a full-stack, mobile-responsive crowdfunding web app to raise \$1 million for MoMath.
- Prepared and tested two SDKs for exhibit interfaces within MoMath, which were released at an inaugural public hackathon
- Integrated an exhibit with QR code scanning, enhancing visitor experience by allowing visitors to take home their creation

**Teaching Assistant – University of Pennsylvania** Fall 2016 - Present

- Courses: Scalable & Cloud Computing, Programming Languages & Techniques.
- Hold code reviews, teach weekly recitations, grade homework and exams for hundreds of students.

## PROJECTS

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**Heart for Africa EHR** (React/Redux, Node, SQL)

- Bring an electronic health record system to a low-resource clinic in Swaziland, Africa.
- Pro-bono solution to overwhelmed health clinic – modules for clinical records and pharmacy inventory to make record keeping and care taking more efficient and effective.

**MHealth Anesthesia** (Meteor.js, Mongo)

- Web app that provides operating room status dashboard and anesthesia procedure checklist, used for efficient OR allocation and training new doctors.
- Now used internally at Hospital of UPenn.

**PennBook** (Node, DynamoDB, MapReduce, Socket.io)

- Facebook clone – including timeline, posts, comments, profiles, friend recommendations, real-time individual and group chat.

## SKILLS

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**Languages** – Java, Python, Javascript, HTML / CSS, SQL

**Tools & Libraries** – React, Redux, Node, Flask, Redis, MongoDB, Git