Allen M. He

(914) 312 – 3568 • heallen@seas.upenn.edu • heallen.github.io

EDUCATION

University of Pennsylvania, School of Engineering & Applied Sciences   Philadelphia, PA
Master of Science – Computer Science **(GPA: 4.0/4.0)**   Aug 2017 - May 2019
Bachelor of Science – Computer Science **(GPA: 3.95/4.0)**   Aug 2015 - May 2019

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

PROFESSIONAL EXPERIENCE

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 popular exhibit into full-stack, mobile-responsive crowdfunding web app to raise $1 million for MoMath.
- Prepared and tested 2 SDKs for exhibit interfaces within MoMath, which were released at inaugural public hackathon
- Integrated 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

Heart for Africa EHR (React/Redux, Node, SQL)   Present
- Introduce an electronic health record system to 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)   Spring 2017
- Built 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)   Fall 2017
- Developed Facebook clone – including timeline, posts, comments, profiles, friend recommendations, real-time individual and group chat.

SKILLS

Languages – Java, Python, Javascript, HTML / CSS, SQL
Tools & Libraries – React, Redux, Node, Flask, Redis, MongoDB, Git