RAYMOND FOK

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EDUCATION

UNIVERSITY OF MICHIGAN – ANN ARBOR Expected April 2019
Bachelor of Science in Computer Science, Minor in Mathematics Ann Arbor, MI
Overall GPA: 3.94 / 4.00
Honors: Dean's List (2016-2017), CoE Honors Program, Aspland Scholarship Recipient

NEW YORK UNIVERSITY Sept 2015 – May 2016
Bachelor of Science in Computer Science and Mathematics Brooklyn, NY
Overall GPA: 4.00 / 4.00
Honors: Dean's List (2015- 2016), Honors Program (top 5% of class), Promise Scholarship Recipient

EXPERIENCE

Undergraduate Researcher Sept 2016 – Present
Crowds + Machines (CROMA) Lab Ann Arbor, MI

Crowdsourcing User-Efficient Clarification Questions (Submitted to CHI 2018)
- Designed and implemented a crowdpowered workflow for generating end-user effort efficient clarifications in conversational systems.

WearMail (Accepted to UIST 2017)
- Co-led research project for privacy-preserving email search from a smartwatch.
- Designed crowd-powered information extractor built with regular expressions and various heuristics.

*Tool Diversity for Realtime Object Segmentation (*Accepted to HCOMP GroupSight 2017)
- Authored paper exploring tool diversity in object segmentation tasks.
- Built web-based GUIs for testing novel 2D object segmentation tools.

Towards Hybrid Intelligence for Robotics (Accepted to CI 2017)
- Built hybrid intelligent system to annotate unknown objects in 3D to assist autonomous indoor robots.

Front-End Web Developer May – Sept 2017
Materials Matters Ann Arbor, MI
- Designed widgets for desktop and iPad illustrating several Materials Science education demonstrations.
- Used iBooks Author to develop several chapters of an interactive materials science textbook.

Software Lead Sept 2016 – Present
Michigan Mars Rover Ann Arbor, MI
- Worked primarily on the autonomous traversal task, using ZED stereo camera and ultrasonic sensors.
- Developed and tested controls for various scientific sensors and a robotic arm.

Undergraduate Researcher May – Aug 2016
Secure Systems Lab Brooklyn, NY
- Maintained, updated, and authored code for Seattle, an educational cloud-computing platform.
- Adapted existing Linux deployment code to implement Seattle onto wireless routers.
- Performed extensive unit testing and documented work for future Seattle-OpenWrt researchers.

SKILLS

- Software: C++, C, JavaScript, Python, HTML, CSS, PHP, Meteor
- Current coursework: Operating Systems, Computer Security, Modern Algebra, Microeconomics
- Selected publications:
  - S. Swaminathan, **R. Fok**, F. Chen, T.K. Huang, I. Lin, R. Jadvani, W.S. Lasecki, J.P. Bigham. WearMail: On-the-Go Access to Information in Your Email with a Privacy-Preserving Human Computation Workflow. In *Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2017)*. Quebec City, Canada.
  - J.Y. Song, **R. Fok**, F. Yang, K. Wang, A.R. Lundgard, W.S. Lasecki. Tool Diversity as a Means of Improving Aggregate Crowd Performance on Image Segmentation Tasks. In HCOMP Workshop on Human Computation for Image and Video Analysis (GroupSight 2017). Quebec City, Quebec.