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Education

- **National University of Singapore (NUS)** — Singapore
  Bachelor in Computer Engineering — *Aug. 2009 - May. 2013*
- **University of California, Berkeley, San Francisco** — USA
  Summer Exchange — *May. 2011 - July. 2011*

Work Experience

- **Plunify** — Singapore
  Senior Software Engineer — *May 2016- Present*
  - Developed machine learning cloud software to automate compilation of FPGA designs.
  - Created web portal for users to purchase, view and use cloud credits.
  - Implemented machine learning models to gain better insights into FPGA timing closure.
  - Installed and performed maintenance on a self hosted WordPress site for marketing purposes.
- **Bioinformatics Institute** — Singapore
  Software Developer — *August 2013 - April 2016*
  - Implemented a novel microscopy screening algorithm and helped reduce acquisition time by 40%.
  - Added new image processing algorithms to an existing cell segmentation software.
  - Performed image registration on biomedical image slices for drug analysis.
  - Developed image processing algorithms and software for fly specie detection with 99% accuracy.
  - Analysed and provided machine learning solutions for FPGA timing and optimization problems.
  - Designed and implemented the user interface for an image processing software.
- **Citibank** — Singapore
  Intern — *January 2012 - June 2012*
  - Performed source code migration from CVS to Perforce.
  - Tested electronic trading simulators and provided feedback to vendors.
  - Set up and deployed an electronic trading simulator.

Skills

Languages: Java, C++, Python, R, PHP, SQL, HTML, CSS, Javascript

Frameworks: QT, Tensorflow, Keras, JQuery, AngularJS, Bootstrap, Wordpress

Publications

- **Loh, S. Y. M., Ogawa, Y., Kawana, S., Tamura, K., & Lee, H. K. (2017).**
  Semi-automated quantitative drosophila wings measurements. *BMC Bioinformatics, 18*(319). doi:10.1186/s12859-017-1720-y
- **Nongpiur, M. E., Atalay, E., Gong, T., Loh, S. Y. M., Lee, H. K., He, M., Perera, S., & Aung, T. (2016).**
  Anterior segment imaging-based subdivision of subjects with primary angle closure glaucoma. *Eye, 31*, 572-577. doi:10.1038/eye.2016.267
- **Bougen-Zhukov, N., Loh, S. Y. M., Lee. H. K., & Loo, L. (2017).**
  Large-scale image-based screening and profiling of cellular phenotypes. *Cytometry Part A, 91*, 115-125. doi:10.1002/cyto.a.22909