Loh Sheng Yang, Michael

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Summary

Highly motivated software engineer with thorough hands-on experience working on different technologies and stacks. A team player with great communication skills who possesses excellent trouble shooting expertise. Adept in machine learning and data analysis with a passion for learning new technologies.

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*
  - Main developer for Web and Cloud platform involving new architecture and legacy code.
    * Launching of AWS cloud instances for FPGA chip optimization.
    * Developed credits and cloud instance management platform.
    * Integrated payment and OAuth services for web application.
  - Developed and integrated desktop GUI application with cloud platform.
  - Optimized code and database queries resulting in 90% speed-up.
  - Created machine learning algorithms which reduced FPGA chip optimization times by 20%.
  - Performed data visualization and analysis of FPGA data to gain insights into FPGA optimization.

- **Bioinformatics Institute** — Singapore
  Software Developer — *August 2013 - April 2016*
  - Implemented a novel microscopy screening algorithm and helped reduce acquisition time by 40%.
  - 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.

- **Citibank** — Singapore
  Intern — *January 2012 - June 2012*
  - Performed source code migration from CVS to Perforce.
  - Tested electronic trading simulators and provided feedback to vendors.

Skills

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

Libraries/Frameworks: QT, Tensorflow, Keras, JQuery, AngularJS, Bootstrap, OpenCV, ImageJ

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