Matthew Vilim

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Education	
Stanford University PhD, Electrical Eng. Fall 2016 – Present	GPA 4.07 Languages, compilers, and architectures for FPGAs and reconfigurable accelerators Advised by Kunle Olukotun
Stanford University MS, Electrical Eng. Fall 2016 – Spring 2018	GPA 3.95
UIUC BS, Computer Eng. Fall 2012 – Winter 2015	GPA 3.95 - University Honors (top 3% of College of Engineering) - Highest Honors
Work	
NVIDIA GPU Verification Intern Spring and Summer 2016 Santa Clara, CA	 Contributed to features and performance of Volta randoms program generator Worked with GPU architecture team to test and verify Volta memory model
NVIDIA Systems Software Intern Summers 2014, 2015 Santa Clara, CA	 Developer on macOS graphics drivers team Ported features only implemented in Windows drivers to macOS drivers
Argonne (ANL) Research Intern Summers 2012, 2013 Lemont, IL	Developer on GREET (greet.es.anl.gov), a model of U.S. emissions
Entrepreneur Computer service business 2008, 2012	 Sole proprietor of business with 180 customers, logging over 1500 hours Performed services such as computer setup and maintenance, network installation
Research —	
Prof. Kunle Olukotun Stanford University Winter 2017 – Present	 Y. Zhang, A. Rucker, M. Vilim, et al. "Compiler-Directed Hybrid Networks for Spatial Architectures." ASPLOS, 2019. (Submitted)
Prof. Rakesh Kumar UIUC Fall 2015	 Developed technique to increase Bitcoin mining profits M. Vilim, H. Duwe, R. Kumar, "Approximate Bitcoin Mining." DAC, 2016.