Matthew Vilim

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Education

Stanford University

Advised by Kunle Olukotun

GPA 4.07

PhD, Electrical Eng. Fall 2016 – Present

- Languages, compilers, and architectures for FPGAs and reconfigurable accelerators

Stanford University

MS, Electrical Eng. Fall 2016 – Spring 2018 GPA 3.95

UIUC

BS, Computer Eng. Fall 2012 – Winter 2015 Highest Honors

GPA **3.95**

- University Honors (top 3% of College of Engineering)

Work Experience

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 Mac OS X graphics drivers team
- Ported features only implemented in Windows drivers to OS X 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 Experience —

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.