KEVIN THOMPSON

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www.github.com/kevthompson

EDUCATION

University of Illinois at Urbana-Champaign — Expected Graduation: May 2020
Bachelor's Degree, Computer Engineering — GPA: 3.38
Minor in Mathematics — Technical GPA: 3.53

SKILLS

Languages: Python, C, C++, Assembly (x86), SystemVerilog, Node.JS, Javascript, Haskell, Bash
Tools: Git, Amazon Web Services, Quartus ISE, LaTeX, Unix & Windows environments

EXPERIENCE

Western Digital — May 2019 - August 2019
RAMP Intern

- Worked with product management to build web tools to check compatibility of platforms with different hardware
- Initiated action to store information in MongoDB databases through a web tool instead of in Excel spreadsheet

State Farm Research & Development Center — May 2018 - April 2019, August 2019 - Present
IT/Systems Intern

- Researching and prototyping radar systems for vehicle detection to protect emergency responders. *Fall 2019*

- Built a compiler to translate the proprietary language SAS into Python. *Fall 2018 - Spring 2019*
- Will potentially save the company millions of dollars in licensing fees, on top of thousands of dollars in man hours.

- Developed internal web applications to monitor all internal and external State Farm webpages. *Summer 2018*

ECE 220 Course Staff — Spring 2018 - Fall 2019
Lab Assistant, Grader

- This is the intro programming class for all Electrical and Computer Engineers, teaches LC-3 and C.
- Responsibilities include running discussion sections and office hours a few times each week.

PROJECTS

ECE 385 Final Project: Super Stank Bros. — Spring 2019

- Designed and developed a 2D fighting game to run on an FPGA.
- Everything was implemented in hardware, including full pixel-by-pixel collision detection and player animations.
- Chosen as the best final project in the lab section.

Project Euler

- ProjectEuler.net hosts hundreds of math-oriented coding challenges.
- Solutions for 50+ Project Euler problems are visible on my GitHub. (C, C++, Python)

Game Of Life Optimizer

- Generates starting seeds that produce more live cells by utilizing a genetic algorithm.
- Parallelized computation using CUDA for faster execution.

RELEVANT COURSEWORK

Parallel Programming	Algorithms I & II	Digital Systems Lab
Artificial Intelligence	Operating Systems	Digital Signal Processing
Machine Learning	Computer Security	Embedded DSP