KEVIN YAN

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Education

The University of Texas at Austin   **GPA: 3.63**
B.S. Computer Science   December 2019
Relevant Coursework:
· CS 314: Data Structures
· CS 429H: Computer Organization and Architecture: Honors
· CS 439H: Principles of Computer Systems: Honors
· CS 345H: Honors Programming Languages
· CS 331: Algorithms and Complexity
· CS 378H: Intro to Data Mining: Honors

Experience

Software Engineering Intern   **National Instruments**
Austin, TX   Summer 2018
· Refactored a database API to eliminate unnecessary code duplication and cache
  coherency issues
Worked with C++, LabVIEW

Computer Architecture Research   **University of Texas at Austin**
Austin, TX   Summer 2017
· Improved instruction cache hit rate by testing replacement policies on large mobile
  and server programs under Dr. Calvin Lin
· Analyzed 200+ mobile and server traces
· Created cache simulation for various cache replacement policies, including Hawk-
  eye
· Tuned certain replacements policies to increase hit rate
Worked with C++, Bash, Java, Condor

Projects

Hack Rice Project - Tweet My Life Chrome Extension: Utilized Twitter API to Tweet
every time a new window was opened along with a screenshot of that window.

FUN to Assembly Compiler and Interpreter: Created a compiler to compile a sim-
ple language into assembly, as well as an interpreter for the same language. Includes
functions, if/else statements, switch statements, for loops, basic arithmetic, and com-
parison operators.

Instruction Pipeline: Created a pipelined processor to handle a basic instruction set
with branch prediction. Accounted for various data and control hazards.

Virtual Memory Implementation: Converted physical memory to virtual memory by
creating and organizing page tables. Implemented a page fault system that handled
invalid memory requests.

Skills

Experienced with Java · C · C++
Familiar with Python · git · Bash · Unix

Extracurriculars

ICPC Competitive Programming Club Member   2017 - Present
UT Smash Bros Officer   2017 - present