KASI MANIKUMAR

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SUMMARY

I am a 3rd-year undergraduate studying Computer Science and Statistics at the University of Illinois, at Urbana-Champaign. My interests lie in machine learning applications and computer architecture/systems design. I am looking to learn as much as possible through an internship or research opportunity.

EDUCATION

University of Illinois, at Urbana-Champaign, graduation: May 2018
B.S. **Computer Science** and **Statistics**, minor: Mathematics

Courses completed:

Data Structures	Computer Architecture
Systems Programming	Computer System Organization
Calculus I, II, III	Statistics and Probability I, II
Applied Regression & Design	

Courses in progress (to be completed prior to summer 2017):

Parallel Programming	Programming Languages & Compilers
Advanced Data Science	Numerical Methods
Statistical Programming Methods	Fundamental Mathematics

EXPERIENCE

Technical Analyst Intern, June 2015-August 2015
NetImpact Strategies, Vienna, VA

- Implemented CRM system (SplendidCRM) for client and specialized it according to client's requirements; Created comprehensive technical documentation to show non-technical employees how to perform tasks with the system.
- Planned and led seamless transition in productivity suites from Google apps to Microsoft 365 for 80+ employees; worked with employees and vendors to determine requirements and select an appropriate licensing plan.

Math Tutor, June 2013-August 2013
Private Math Tutoring

- Worked with parents to **c**reate curricula for 5th and 6th grade students to solidify understanding of the past year's knowledge and prepare for the upcoming year. Leveraged resources such as Khan Academy.
- 80% of pupils scored perfect scores and all students scored at the top of "Advanced" level in the following year's STAR test, placing them in honors math classes.

PROJECTS

- Transit-Alarm: Android app to alert user based on GPS location rather than time. Uses location-services API and Bay Area Rapid Transit API. written in Java.
- Dynamic-Memory-Allocator: Implemented malloc, calloc, realloc, and free with an implicit free-list, block-coalescing, and block-splitting. written in C.
- MIPS-Interpreter [WIP]: An interpreter for a subset of the MIPS instruction set. written in C.
- Shoe-Bot: Script to automate the add-to-cart process on nike.com and adidas.com. written in Python.

LANGUAGES/TOOLS/SKILLS

- Languages: Java, C, C++, Python, R, Haskell, Verilog (for hardware description)
- Tools: Git, SVN, Numpy, Scikit-Learn, Selenium, Android studio, Xcode, IntelliJ, Adobe Illustrator
- Skills: machine learning, statistical modeling, UNIX shell programming, networking (TCP/UDP), Android application development

AWARDS

- Eagle Scout - Boy Scouts of America, 2014