KASI MANIKUMAR

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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

Firmware Developer, February 2017 - current
Mesh++, Champaign, IL
- Working to provide public wifi in Chicago, Tanzania, and India through wireless mesh networking technology
- Developing firmware based on OpenWRT for router nodes. Implementing features such as splash page, throughput measurement and power consumption tracking

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 create 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, OpenMP, Numpy, Scikit-Learn, Selenium, Android studio, Xcode, IntelliJ, Adobe Illustrator
- Skills: machine learning, Monte-Carlo modeling, UNIX shell programming, networking (TCP/UDP), Android application development

AWARDS

- Eagle Scout - Boy Scouts of America, 2014