

NING WANG

Tel: (+1) 404-940-3672
Email: ningwang@gatech.edu
Webpage: wangnin.me

Address: 1702 Crest Lane Drive, Smyrna, GA, 30080

Education Background

| | |
|---------------------------------------------------------------------------------------------------|---------------------------|
| Georgia Institute of Technology (GT) | Atlanta, Georgia |
| <i>M.S. in Electrical and Computer Engineering, <u>GPA: 3.9/4.0</u></i> | <i>Aug.2014–Present</i> |
| Wuhan University of Technology (WUT) | Wuhan, China |
| <i>B.E. in Automotive Engineering, Overall GPA: 3.9/4.0, Graduation with Honors</i> | <i>Sept.2010–Jun.2014</i> |
| National Taiwan University (NTU) | Taipei, Taiwan |
| <i>Undergraduate research internship in Department of Bio-industrial Mechatronics Engineering</i> | <i>Jul.2013–Aug.2013</i> |

Work Experience

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Software Development Engineer Intern at Amazon.com, Inc. | Seattle, Washington |
| <i>Kindle Test Automation and Build Team</i> | <i>May.2015–Present</i> |
| <ul style="list-style-type: none">• Integrated Kindle rendering framework using C++ STL and Boost library• Developed an online book previewer using Django, jQuery, HTML, CSS• Followed test driven development process and deployed application to internal servers | |

Recent Projects

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| GTThreads - A User Level Threads Library (C, Linux) | <i>Sept.2015</i> |
| <ul style="list-style-type: none">• Implemented a user level threads library with the same interfaces as POSIX Threads• Realized a pre-emptive threads scheduler by using alarm signal as timer• Solved the classical Dining Philosopher problem with the GTThreads library | |
| Procedural Content Generation for MOBA game (Pygame, Scikit-Learn) | <i>Mar.2015–Apr.2015</i> |
| <ul style="list-style-type: none">• Developed a tower defense game with customized difficulty• Used Linear Regression to learn the player model and Simulated Annealing to optimize game levels | |
| Real-time Weather Monitoring (Spark, DynamoDB, Kafka, Django) | <i>Mar.2015–Apr.2015</i> |
| <ul style="list-style-type: none">• Implemented Kalman filter in Spark to do weather monitoring and forecasting• Integrated a Kafka consumer with Spark to do stream data processing• Published results to DynamoDB and displayed them with Django web application | |
| C/C++ Simulators for High Performance Computer Architecture (C, C++) | <i>Oct.2014–Dec.2014</i> |
| <ul style="list-style-type: none">• Created a simulator for cache with victim cache and prefetcher• Built a simulator for an out of order superscalar processor using Tomasulo Algorithm• Implemented several cache coherence protocols on top of a simulator for shared-memory machines | |

Programming Languages & Skills

- Coding: C++ (2 years), C (5 years), Python (2 years), Java (2 years), Objective-C (1 year), Bash (1 year)
- Library & Frameworks: STL, Boost, Pthread, MPI, OpenMP, Thrift, Django, Flask, jQuery, Node.js
- Tools: Vim, Git, Make, GDB, valgrind, tmux, Xcode, Eclipse
- Data Analytics Skills: Hadoop, Kafka, Storm, DynamoDB, MySQL