

hunter lee

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+ summary

Returning Duke junior interested in problem-solving using CS/electrical engineering methods. Passionate about software engineering, product management, and computer architecture.

+ employment

Lineage Logistics Analytics San Francisco, CA
Data Scientist/Software Engineering Intern May 2016 to Aug 2016

Optimization of variables involved such as size of the buffer, number of doors, etc. in an automated storage system (40% more storage, \$18MM project) while maintaining throughput to determine feasibility of the project. Co-led the development of an object-oriented, multi-threaded discrete-event simulation in Python. Tools: SimPy, NumPy, IntervalTree, MySQL, AWS

Duke University Computer Science Department Durham, NC
Teaching Assistant 2015 to Current

Led office hours for Operating Systems, Software Design and Implementation, and Computer Architecture.

Duke Systems Architecture Integration Laboratory Durham, NC
Undergraduate Researcher - BCL Research Group 2016 to Current

Designing systems for responsiveness (such as smartphones) with asynchronous cores, power, and cache. Scripting and running machine learning and graph applications in Apache Spark for experimental data.

Duke Neuroeconomics Huettel Laboratory Durham, NC
Undergraduate Researcher Jan 2011 to May 2011

Worked with Dr. Mullette-Gillman in assisting with data analysis using MATLAB and performing surveys.

/ndustrial.io Durham, NC
Software Engineer (Part-time) Sep 2016 to Current

ndustrial.io offers analytical engines that help businesses control production, improve energy efficiency, and eliminate waste.

+ awards

Duke University · Dean's List with Distinction 2015
Awarded to the top 10% of the school

Central Utah STEM Fair · 2nd Place in Central Utah STEM Fair 2010

+ activities

Duke Community Consulting · Associate Current
Consultant for tech startups and non-profits offering pro-bono consulting service including market research and analysis.

Resident Assistant
Student leader over 30 undergraduates. Responsibilities include community building, conflict resolution, and residential programming.

+ volunteering

US Army (8th) · SGT, Military Police 2013 to 2015
Camp Carroll, Korea
Assisted the Provost Marshal in overseeing base-wide security of approximately 1500 servicemen. Managed a team of desk clerks. Received the Army Achievement Medal for leadership and contribution to the MP unit.

Church of Jesus Christ of Latter-day Saints · Missionary 2011 to 2013
Tokyo, Japan
Two year missionary service. Responsible for analyzing demographics and proselytizing activity for the greater Tokyo area and trained other missionaries.

+ education

Duke University
Electrical and Computer Engineering 2018

Major GPA: 3.97
Software Design and Implementation, Operating Systems, Artificial Intelligence, Algorithms, Digital Systems, Advanced Computer Architecture

Waterford School
2010

+ projects

VoogaSalad
Developed a game authoring environment modeled after Unreal Engine in Java using JavaFX. Built the physics engine and contributed to back-end model and controller. XStream for serialization and Clarifai API for image-searching.

SLogo
Developed an IDE for LOGO language in Java using JavaFX. Created an interactive GUI where objects (turtle) move around.

Raft
Implemented the Raft Consensus Algorithm in Java using Java's RMI interface.

Librevenge - .zmf format header
Wrote headers in C++ for .zmf extension (Zoner Draw) as part of my Google summer of code submission for LibreOffice. Involved reverse engineering the ZMF format.

Decide Current
Android app for quick polling with coworkers and friends. Built on Ionic platform using MongoDB. Integration with Elasticsearch.

Thread Library
Wrote a thread library in C++ that simulates context switching and synchronization with mutex using ucontext (Unix).

Robin Hood Hashing
Implemented a Hash Map with Robin Hood hashing in Python. Wrote unit tests and scripts for performance test against linear probing.

+ skills

PROFICIENT	FAMILIAR
Java	Scala
Python	MongoDB
C++	Verilog
HTML/CSS/Bootstrap	
JavaScript	
NodeJS/Express	
C/MIPS Assembly	
SQL	